

**WORK AUTHORIZATION NO. 1**

**PROJECT: Construction Materials Testing and Inspection for the Williamson County  
Georgetown Annex Project**

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated May 25, 2017 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Professional Services Industries, Inc. (the "Engineer").

Part 1. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is \$60,000.00

Part 3. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on December 31, 2017. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 6. County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Work Authorization. Engineer understands and agrees that County's payment of amounts under this Work Authorization is contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to continue to make payments under this Contract. It is further understood and agreed by Engineer that County shall have the right to terminate this Contract at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may effect such termination by giving written notice of termination to Engineer.

Part 7. This Work Authorization is hereby accepted and acknowledged below.

EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

ENGINEER:

Professional Service Industries

By:   
Signature

Andrew Domke  
Printed Name

Branch Manager  
Title

COUNTY:

Williamson County, Texas

By: \_\_\_\_\_  
Signature

Dan A Gattis  
Printed Name

Williamson County Judge  
Title

## **Attachment A**

### **Services to be Provided by County**

1. County will direct type of services to be provided.
2. County will provide timely reviews and decisions necessary to enable Professional Services Industries, Inc. to maintain an agreed upon project schedule as developed in Attachment C.
3. County will provide points of contact, to be identified upon Notice to Proceed.
4. County will provide project management.

## **ATTACHMENT B**

### **Services to be Provided by Engineer**

Summary of Scope of Services: PSI is to perform construction materials testing and inspection of the Williamson County Annex which includes but is not limited to the following:

- Building and Paving subgrade proofroll inspections, as well as, field density testing of compacted fill materials placed on subgrades, utility backfill, and associated lab testing
- Drilled pier inspections to check pier lengths and diameters, bearing strata confirmation and penetration depth, reinforcing steel inspection and associated concrete field tests, and fabrication of test cylinders.
- Perform reinforcing steel inspections to verify that the proper size, grade, length, spacing, cleanliness, and chairs are in place prior to concrete placements.
- Perform concrete placement inspections to check the strength of the concrete, as well as consistency, temperature, air content, and placement techniques.
- Perform masonry observations which includes the fabrication of mortar cubes, grout specimen, reinforcing steel placement observations, grouting techniques, and check masonry veneer tiebacks.
- Inspect structural steel bolted connections for tightness, as well as, weld inspection of welded connections on structural steel framing and related elements.
- Perform asphalt lab testing for material quality for parking lot paving and drives. Asphalt paving cores are sampled to verify density and thickness after placements.

## **Attachment C**

### **Work Schedule**

Work schedule is approximately 420 calendar days from notice to proceed.

## ATTACHMENT D

### FEE SCHEDULE

Laboratory testing of soils, delivered to our laboratory, in accordance with ASTM or AASHTO procedures and project specifications.

Moisture/Density Relationship of Soil (Proctor Test):

a. ASTM D-698 (Standard) .....	Each	\$ 185.00
b. ASTM D-1557 (Modified) .....	Each	\$ 185.00
d. TEX-113-E (Base Materials) .....	Each	\$ 185.00
c. TEX-114-E (Subgrade, Embankment, Backfill Materials) .....	Each	\$ 185.00
Atterberg Limits Determination (PI) .....	Each	\$ 65.00
Material Finer Than #200 Sieve (Wash/Dry) .....	Each	\$ 65.00
Sieve Analysis .....	Each	\$ 65.00
Unified Soil Classification .....	Each	\$ 65.00
Sample Preparation .....	Each	\$ 65.00
Standard Moisture/Density Relationship, Atterberg Limits, Sieve Analysis, Percent Passing No.200 Sieve, Unified Soil Classification, Sample Preparation .....	Each	\$ 535.00

Field testing of soils in accordance with ASTM or AASHTO procedures and project specifications.

Nuclear Density Test ASTM D2922 .....	Each	\$ 15.00
Moisture Content of Soil.....	Each	\$ 5.00

#### CONCRETE and AGGREGATES

Laboratory testing of concrete, grout, mortar and aggregates, delivered to our laboratory, in accordance with ASTM or TEX procedures and project specifications.

Concrete Cylinders (Cured and/or Tested in Compression) .....	Each	\$ 18.00
Trimming of Cylinders for ASTM Procedure (Contractor Made Only) .....	Each	\$ 25.00
Sieve Analysis of Coarse Aggregates .....	Each	\$ 75.00
Sieve Analysis of Fine Aggregates .....	Each	\$ 75.00
Specific Gravity and Absorption .....	Each	\$ 55.00
Bulk Density .....	Each	\$ 50.00
Materials Finer than #200 Sieve (Decant) .....	Each	\$ 65.00
Sand Equivalent .....	Each	\$ 65.00
Organic Impurities in Fine Aggregate .....	Each	\$ 65.00
Los Angeles Abrasion .....	Each	\$ 225.00
Crushed Face Particle Count.....	Each	\$ 75.00
Soundness of Aggregates (Magnesium or Sodium) .....	Each	\$ 375.00

Field testing of concrete in accordance with ASTM procedures and project specifications.

Slump of Hydraulic Cement Concrete .....	Each	\$ 6.00
Air Content of Freshly Concrete by the Pressure Method .....	Each	\$ 6.00
Temperature of Freshly Mixed Portland-Cement Concrete .....	Each	\$ 6.00
Unit Weight of Concrete .....	Each	\$ 6.00

## ASPHALT

Laboratory testing of asphaltic samples delivered to our laboratory, in accordance with ASTM procedures and project specifications

Extraction and Gradation .....	Each	\$ 145.00
Asphalt Coring Machine.....	Per Trip	\$ 175.00
Thickness Determination of Asphalt Cores .....	Each	\$ 15.00
Density Determination and Thickness of Asphalt Cores .....	Each	\$ 30.00
Theoretical Specific Gravity (Rice Method) .....	Each	\$ 85.00
Asphalt Stability.....	Each	\$ 45.00

## MASONRY

Laboratory testing of masonry samples delivered to our laboratory, in accordance with ASTM Procedures and project specifications

Grout Prisms (Cured and/or Tested in Compression) .....	Each	\$ 18.00
Mortar Cubes (Cured and/or Tested in Compression) .....	Each	\$ 18.00

## FIELD TESTING AND OBSERVATION SERVICES

Engineering Technician/ Inspector (minimum 4 hours)

{To perform field density testing, field testing of concrete, slump, air content, temperature, unit weight, cast concrete cylinders, masonry testing, proof rolling observation, drilled piers, reinforcing steel, post tensioning placement and stressing, floor flatness, fireproofing, wood framing, and concrete batch plant observation) .....	Per Hour	\$ 45.00
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Asphalt Technician (minimum 4 hours)

(To perform asphalt placement observation, extraction gradation, asphalt stability, maximum theoretical specific gravity, lab molded density, air void determination of cores) .....	Per Hour	\$ 52.00
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Structural Steel Technician {minimum 4 hours)

{To perform visual weld observation, bolting inspection, shear stud verification, NOE of welds, and fabrication shop observation) .....	Per Hour	\$ 95.00
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Geotechnical Engineer

(Site visits, consultation, special reports) .....	Per Hour	\$ 125.00
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Professional Engineer

(Site visits, consultation, special reports) .....	Per Hour	\$ 138.00
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## MANAGEMENT/TECHNICAL SERVICES

Project Manager.....	Per Hour	\$ 94.00
Report Review.....	Each	\$ 25.00
Project Setup fee.....	Each	\$ 150.00
Final Close-Out Letter / Report- as needed .....	Each	\$ 375.00

## EQUIPMENT

Daily Equipment Charge" .....	Per Trip	\$ 40.00
Lime depth checks/field gradations .....	Per Test	\$ 45.00
Floor vapor emission test kits .....	Per Kit	\$ 40.00
Concrete Coring Rig Charge .....	Per Day	\$ 150.00
Asphalt Coring Machine.....	Per Trip	\$ 175.00
Generator .....	Per Trip	\$ 75.00
Core hole patching .....	Per Hole	\$ 15.00
Floor Flatness Equipment		
Up to 10,000sf .....	Each	\$ 550.00
Over 10,000sf .....	Per SF	\$ 0.06
UT Flaw Detector Machine .....	Per Day	\$ 130.00
UT Couplant (minimum 1 pint).....	Per Pint	\$ 25.00
PT Cleaner (minimum 1 can).....	Per Can	\$ 25.00
PT Penetrant (minimum 1 can).....	Per Can	\$ 25.00
MT Equipment.....	Per Day	\$ 85.00
MT Powder (minimum 1 lb).....	Per Pound	\$ 25.00
Transportation Charge .....	Per Trip	\$ 40.00

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\*Charges for the use of nuclear density gauge when testing soils compaction and for concrete equipment when performing concrete testing ( slump cone, slump board, air content meter, wheel borrow, etc.)