

### WORK AUTHORIZATION NO. 3

#### PROJECT: On Call Traffic Engineering Services

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated October 8, 2015 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and HDR, 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 \$40,000.00.

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 October 31, 2018. 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:

HDR ENGINEERING, INC

By:   
Signature

RASHED ISLAM, P.E.  
Printed Name

VICE PRESIDENT  
Title

COUNTY:

Williamson County, Texas

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

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

## LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

**Attachment A - Services to be Provided by County**

1. County will provide project management
2. County will provide a single point of contact, to be identified upon Notice to Proceed.

## **Attachment B - Services to be Provided by Engineer**

Services will be addressed as requested by Williamson County on a time and materials basis based on the Hourly Rate Schedule in the October 2015 PSA. A scope of work and estimated fee will be provided in writing prior to proceeding with any additional service.

### **Attachment C - Work Schedule**

Engineer shall provide a work schedule for the assigned tasks. Work shall begin immediately upon receipt of agreement between County and Engineer on the work schedule and authorization to proceed on assigned services.

## Attachment D - Fee Schedule

### HDR Engineering, Inc.:

Senior Project Manager	\$240.00 per hour
Senior Engineer	\$195.00 per hour
Project Engineer	\$150.00 per hour
Design Engineer	\$125.00 per hour
EIT	\$115.00 per hour
Senior GIS Tech	\$135.00 per hour
GIS Tech	\$100.00 per hour
Senior Engineer Tech	\$115.00 per hour
CAD Operator	\$ 90.00 per hour
Senior Env Project Manager	\$230.00 per hour
Senior Env Planner	\$165.00 per hour
Senior ENV Scientist	\$125.00 per hour
Env Scientist	\$ 90.00 per hour
Admin/Clerical	\$ 65.00 per hour

### INLAND GEODETICS, LLC

#### Field Crew Services

Two (2) Person Field Crew	\$138.00 per hour
Three (3) Person Field Crew	\$160.00 per hour
Four (4) Person Field Crew	\$183.00 per hour
Additional Crewmember	\$ 42.00 per hour
GPS Field Operator,/Vehicle/GPS Receiver	\$118.00 per hour
All Terrain Vehicle	\$ 55.00 per day
Additional Vehicle	\$ 60.00 per day

Crew Rates include one four wheel drive vehicle. There is no mileage charge for fully equipped field vehicles when the job site is within 50 miles of the office from which the survey crew originates. Field crew stand by time will be charged at stated rates. Field party rates include conventional equipment, supplies and survey vehicles. Abnormal use of stakes, lathes, etc., used such as during the construction phase of a project will be charged as indicated. A minimum of two (2) hours field party time charge will be made for show-up time and return to office, resulting from inclement weather conditions, etc.

#### Office Personnel Services

Office personnel are available at fixed hourly rates.

Project Manager	\$136.00 per hour
Licensed State Land Surveyor	\$132.00 per hour
Registered Professional Land Surveyor	\$132.00 per hour
Survey Technician	\$ 98.00 per hour
Clerical Support	\$ 54.00 per hour

#### Travel and Subsistence

All travel and subsistence expenses are invoiced at actual rates/cost. Cost of mileage on company owned vehicles is computed at the current IRS mileage allowance. Subsistence per-diem will be billed at current GSA rates as used by the State of Texas.

**SWCA Environmental Consultants**

Project Manager \$182.00 per hour

---

Consulting Services:

Cultural Resources	Air Quality
Environmental Resources	Graphics / Media Production
Paleontology	GIS / CADD Resources
Scientific Resources	Technical Writing / Editing
Planning Resources	Principal Investigator

---

Subject Matter Expert XI	\$315.00 per hour
Subject Matter Expert X	\$301.90 per hour
Subject Matter Expert IX	\$288.80 per hour
Subject Matter Expert VIII	\$275.70 per hour
Subject Matter Expert VII	\$262.60 per hour
Subject Matter Expert VI	\$249.50 per hour
Subject Matter Expert V	\$236.40 per hour
Subject Matter Expert IV	\$223.30 per hour
Subject Matter Expert III	\$210.20 per hour
Subject Matter Expert II	\$197.10 per hour
Subject Matter Expert I	\$184.00 per hour
Specialist XI	\$182.00 per hour
Specialist X	\$166.00 per hour
Specialist IX	\$149.00 per hour
Specialist VIII	\$138.00 per hour
Specialist VII	\$127.00 per hour
Specialist VI	\$116.00 per hour
Specialist V	\$105.00 per hour
Specialist IV	\$ 93.00 per hour
Specialist III	\$ 83.00 per hour
Specialist II	\$ 71.00 per hour
Specialist I	\$ 61.00 per hour
Technician II	\$ 49.00 per hour
Technician I	\$ 39.00 per hour
Administrative VII	\$105.00 per hour
Administrative VI	\$ 93.00 per hour
Administrative V	\$ 83.00 per hour
Administrative IV	\$ 71.00 per hour
Administrative III	\$ 61.00 per hour
Administrative II	\$ 49.00 per hour
Administrative I	\$ 39.00 per hour



## Terracon

### **Geotechnical Personnel**

Senior Principal / Officer / Consultant, P.E.	\$170.00 per hour
Principal Geotechnical Engineer, P.E.	\$140.00 per hour
Senior Geotechnical Engineer, P.E.	\$130.00 per hour
Project Manager	\$115.00 per hour
Project Geotechnical Engineer	\$105.00 per hour
Staff Geotechnical Engineer	\$ 95.00 per hour
Field Geologist, P.G.	\$ 75.00 per hour
Senior Engineering Technician	\$ 48.00 per hour
Engineering Technician	\$ 44.00 per hour
Drilling / Field Services Coordinator	\$ 60.00 per hour
Extra Drilling Crew Member	\$ 50.00 per hour
Draftsman	\$ 70.00 per hour
Clerical Support /Administrative Staff	\$ 48.00 per hour

### **Field Services**

Mobilization, Truck-Mounted Drill Rig (within 50 mile of office)	\$ 300.00
Addl. Mileage of Drill Rig, (beyond 50 mile of office)	\$ 3.50
Minimum Field Charge for Truck-Mounted Drill Rig, per day	\$ 700.00
Mobilization of Track/ -Mounted Drill Rig, each (within 50 mile of office)	\$ 500.00
Addl. Mileage of Track/ATV Drill Rig, per mile (beyond 50 mile of office)	\$ 6.00
Minimum Field Charge for Track/ATV-Mounted Drill Rig, per day	\$1,500.00
Drilling Crew hourly rate (two-man crew), per hour	\$ 250.00
Drilling Crew & Rig Standby Time (two-man crew), per hour	\$ 250.00
Extra Drilling Crew Member, per hour	\$ 50.00

### **Soil Borings, using 3-inch thin-wall tube sampling (Shelby tube) or 2-inch split-barrel sampling (SPT), depths measured from existing ground surface:**

0 to 25 feet, per foot	\$14.00
25 to 50 feet, per foot	\$15.50
50 to 75 feet, per foot	\$17.00
75 to 100 feet, per foot	\$18.50
Wash or auger boring, per foot (no sampling)	\$12.00
Additional for Hollow-Stem Augering, per foot	\$6.00

### **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	\$ 2.00
TxDOT Cone Penetration (TCP) tests, each	\$30.00
Grouting of Borings with bentonite or sak-crete, per foot	\$ 5.00

**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

**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	\$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

**CPI Rate Adjustments:** Rates will remain firm for the initial first year of the Contract and such rates shall be deemed the "Initial Base Rates". Engineer must request rate adjustments, in writing, at least thirty (30) days prior to each annual anniversary date of the Contract and any rate changes will take effect on the first day following the prior year. If Engineer fails to request a CPI rate adjustment, as set forth herein, the adjustment will be effective thirty (30) days after the County receives Engineer's written request. No retroactive rate adjustments will be allowed.

Price adjustments will be made in accordance with changes in the U.S. Department of Labor Consumer Price Index (CPI-U) for All Urban Consumers, All Items, South Region (Base 1982-84 = 100).

The rate adjustment will be determined by multiplying the Initial Base Rates by a fraction, the numerator of which is the index number for most recently released index before each annual anniversary date of the Contract and the denominator of which is the index number for the first month of the Contract (the index number for the month in which the Contract was originally executed). If the products are greater than the Initial Base Rates, County will pay the greater amounts as the rates during the successive year until the next rate adjustment. Rates for each successive year will never be less than the Initial Base Rates.