

**SUPPLEMENTAL WORK AUTHORIZATION NO. 1
TO
WORK AUTHORIZATION NO. 1**

WILLIAMSON COUNTY PROJECT: Geotechnical Engineering Services for Williamson County North Campus Facilities

This Supplemental Work Authorization No. 1 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated **December 3, 2015** ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and **Balcones Geotechnical PLLC** (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective **December 21, 2015** (the "Work Authorization");

WHEREAS, pursuant to the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

- I. The Work Authorization shall terminate on **February 2, 2018**. The Services to be Provided by the Engineer shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C".
- II. The maximum amount payable for services under the Work Authorization is hereby increased from **\$65,000** to **\$75,000**. The revised Fee Schedule is attached hereto as Attachment "D".

County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Supplemental Work Authorization. Engineer understands and agrees that County's payment of amounts under this Supplemental 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 the Supplemental Work Authorization. It is further understood and agreed by Engineer that County shall have the right to terminate this Supplemental Work Authorization 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.

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

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

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

EXECUTED this ____ day of _____, 20__.

ENGINEER:

By: John A. Wooley
Signature

John A. Wooley
Printed Name

Principal
Title

April 13, 2017
Date

COUNTY:

By: _____
Signature

Dan Gattis
Printed Name

County Judge
Title

Date

LIST OF ATTACHMENTS

Attachment C - Work Schedule

Attachment D - Fee Schedule

Attachment C -Work Schedule

Construction Phase Services

As requested, Balcones has provided limited construction phase services for the WILCO North Campus project. Because of unanticipated rock boulders encountered during excavation of the Wireless Communications Building and Vehicle Inspection Building additional site visits and response to RFIs have been necessary. In addition, the following services are still anticipated for the remainder of the project:

1. Attending necessary project meetings should geotechnical input be required,
2. Responding to RFIs that may be needed to clarify geotechnical recommendation implementation,
3. Perform at least one site visit during installation of foundations to observe actual conditions are in accordance with our geotechnical report, and
4. Be available to consult with the county should subsurface conditions require our input.

Anticipated work to be completed by February 2018.

Attachment D - Fee Schedule

FEE SCHEDULE FOR GEOTECHNICAL FIELD, LABORATORY AND ENGINEERING SERVICES

1. Field Investigation

1.1.	Mobilization and demobilization, per mobilization	
1.1.1	Drill truck, water truck, pickup, and crew	\$ 3.75/mile
1.1.2	All-terrain drill rig, pickup, and crew	\$ 6.00/mile
1.2.	All-terrain vehicle with drill rig (additional charge)	\$ 600.00/day
1.3.	Drilling and sampling	
1.3.1	Drilling and sampling with 3-inch, thin-walled tube sampler, continuous to 10.0 ft, 5.0-ft intervals thereafter	\$ 20.00/foot
1.3.2	Continuous drilling and sampling with 3-inch, thin-walled tube sampler or split-spoon sampler for environmental screening	\$ 32.00/foot
1.4.	Standard penetration tests	\$ 20.00/each
1.5.	TxDOT cone penetration tests	\$ 28.00/each
1.6.	Rock coring, NX or similar core barrel	
1.6.1	Drilling in soft rock (Austin Chalk, Eagle Ford Shale, etc.)	\$ 27.50/foot
1.6.2	Drilling in hard rock or cavitated rock (Edwards, Buda, Glen Rose, Georgetown, and Walnut Formations)	\$ 29.50/foot
1.7.	Wash or auger borings drilled and logged from cuttings:	
1.7.1	Soil	\$ 13.00/foot
1.7.2	Rock	\$ 19.00/foot
1.8.	Casing of boreholes	\$ 15.00/foot
1.9.	Hourly charges for boring layout, excessive time spent gaining access to boring locations, backfilling boreholes, cleaning up site, installing piezometers, and for other reasons beyond our control	\$ 185.00/hour
1.10.	Rental of concrete core drilling equipment or equipment to gain site access, or traffic control devices	Cost
1.11.	Materials for piezometers, grouting, etc.	Cost
1.12.	Surveying or other outside contractors	Cost
1.13.	Traffic control	Upon Request
1.14.	Per diem for out-of-town assignments, per person	\$ 125.00/night
1.15.	High-pressure steam cleaner	\$ 400.00/day
1.16.	OVA meter	Upon Request
1.17.	Steel drums for drill cuttings (delivered)	\$ 75.00/each
1.18.	Plugging boreholes with bentonite/concrete slurry	\$ 8.00/foot
1.19.	Cone penetrometer testing	\$ 3,250.00/day

2. Laboratory Tests

2.1.	Natural water content and soil classification	\$ 15.00/each
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2.2	Plastic and liquid limits	\$	85.00/each
2.3	Free swell test	\$	85.00/each
2.4	Pressure swell test	\$	135.00/each
2.5	Uniaxial pressure-strain test	\$	60.00/each
2.6	Sieve analysis (No. 4, 40, and 200 sieves)	\$	65.00/each
2.7	Percent material passing a single sieve	\$	45.00/each
2.8	Minus No. 200 sieve	\$	45.00/each
2.9	Hydrometer analysis	\$	200.00/each
2.10	Unit dry weight determination and natural water content	\$	18.00/each
2.11	Unconfined compression test, soil	\$	65.00/each
2.12	Unconfined compression test, rock	\$	75.00/each
2.13	Unconsolidated-undrained triaxial compression test	\$	95.00/each
2.14	Standard Proctor (ASTM D-698) compaction test	\$	230.00/each
2.15	Modified Proctor (ASTM D-1557) compaction test	\$	230.00/each
2.16	TxDOT (TEX-113-E) compaction test	\$	240.00/each
2.17	California Bearing Ratio (CBR)	\$	275.00/point
2.19	Consolidation test, 7-load increments	\$	750.00/each
	Additional load increments	\$	100.00/each
2.19	Permeability of silt or clay	\$	250.00/each
2.20	Specific gravity	\$	50.00/each
2.21	Volumetric shrinkage	\$	75.00/each
2.22	Chemical and analytical testing by outside laboratory		Cost
3.	Engineering and Technical Personnel		
3.1.	Senior Consultant/Project Principal	\$	225.00/hour
3.2.	Senior Project Manager	\$	180.00/hour
3.3.	Project Manager	\$	170.00/hour
3.4	Project Engineer	\$	135.00/hour
3.5	Project Geologist	\$	95.00/hour
3.6	Laboratory Manager	\$	95.00/hour
3.7	Graduate Engineer	\$	85.00/hour
3.8	Senior Engineering Technician	\$	75.00/hour
3.9	Technician and Draftsperson	\$	70.00/hour
3.10.	Word Processor	\$	50.00/hour
4.	Report Reproduction and Miscellaneous		
4.1.	Outside services, printing, reproduction, etc.		Cost
4.2	Outside technical assistance		Cost
4.3.	Transportation	\$	0.55/mile