

CONTRACT AMENDMENT NO. 2
TO
WILLIAMSON COUNTY CONTRACT FOR
ENGINEERING SERVICES

**WILLIAMSON COUNTY ROAD & BRIDGE PROJECT:
ON-CALL MATERIALS TESTING & GEOTECHNICAL ENGINEERING (“Project”)**

THIS CONTRACT AMENDMENT NO. 2 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 Fugro USA Land, 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 May 5, 2020 (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 “Compensation Cap” under Article 5 of the Contract limits the maximum amount payable under the Contract to \$ 400,000.00 ; and,

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, to be effective as of the date of the last party's execution below.

ENGINEER:

By: 
Signature

Erik Hordijk
Printed Name

Business Line Director - LSC
Title

02 May 2023
Date

COUNTY:

By: 
Signature

Bill Gravell
Printed Name

County Judge
Title

May 16, 2023
Date

APPROVED

By Christen Eschberger at 5:30 pm, May 04, 2023



EXHIBIT D - RATE SCHEDULE

FEES FOR GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES

1. FIELD SERVICES

1.1 Geotechnical

Unit Rate

1.1.1	Mobilization and Demobilization, Local, Each	\$ 537.30 minimum
1.1.1.1	Drill Truck, Water Truck, Pickup, and Crew	\$ 9.55/mile
1.1.2	Drilling and Sampling	
1.1.2.1	Drilling and Sampling with 3-inch, Thin-Walled Tube Sampler, Continuous to 10.0 ft, 5.0-ft Intervals Thereafter.....	\$ 26.27/foot
1.1.2.2	Continuous Drilling and Sampling with 3-inch, Thin-Walled Tube Sampler or Split-Spoon Sampler	\$ 46.57/foot
1.1.3	Standard Penetration Tests	\$ 32.24/each
1.1.4	TxDOT Cone Penetration Tests	\$ 40.60/each
1.1.5	Rock Coring, NX or Similar Core Barrel	
1.1.5.1	Drilling in Soft Rock (Austin Chalk, Eagle Ford Shale, etc.)	\$ 35.82/foot
1.1.5.2	Drilling in Hard Rock or Cavitated Rock (Edwards, Buda, Glen Rose, Georgetown, and Walnut Formations)	\$ 46.57/foot
1.1.6	Casing of Boreholes	\$ 31.04/foot
1.1.7	Drill Rig Hourly Charges for Boring Layout, Excessive Time Spent Gaining Access to Boring Locations, Move Time, Backfilling Boreholes, Cleaning up Site, Installing Piezometers, and for Other Reasons Beyond our Control	\$ 292.53/hour
1.1.8	Plugging Boreholes with Bentonite.....	\$ 10.75/foot
1.1.9	Cone Penetrometer Testing	\$4,477.55/day
1.1.10	Wooden Core Boxes (NX)	\$ 89.55/each
1.1.11	Field Personnel.....	See 4.0: Engineering Consultation

1.2 Geophysics Equipment

Unit Rate

1.2.1	Geophysics Vehicle (including consumables).....	\$ 208.95/day
1.2.2	Mileage	\$ IRS Rate
1.2.3	GPR (complete system).....	\$ 596.99/day
1.2.4	GPR (extra antenna)	\$ 101.49/day
1.2.5	EM (EM31, EM61)	\$ 262.68/day
1.2.6	Resistivity (Sting/MiniSting)	\$ 167.16/day
1.2.7	Resistivity (SuperSting).....	\$ 925.35/day
1.2.8	Magnetometer	\$ 310.44/day
1.2.9	Seismic Refraction (per 24ch).....	\$ 388.05/day
1.2.10	Downhole Seismics.....	\$ 429.84/day
1.2.11	Crosshole Seismics	\$ 608.94/day
1.2.12	Utility Locating Tools	\$ 226.86/day



EXHIBIT D - RATE SCHEDULE

1.3 CMT Field Technicians **(See Note 1)** Unit Rate

1.4 Field Testing and Equipment		<u>Unit Rate</u>
1.4.1	Transportation (Local)	\$ 95.52/trip
1.4.2	Nuclear Density Tests (Equipment Charge)	\$ 22.69/test
1.4.3	Torque Wrench	\$ 41.79/day
1.4.4	Ultrasonic Testing Equipment	\$ 41.79/hr
1.4.5	Asphalt Coring Equipment	\$ 53.73/hr
1.4.6	Concrete Coring Equipment	\$ 53.73/hr
1.4.7	Concrete Core Bit Charges	
1.4.7.1	3 inch-diameter Core	\$ 10.75/inch
1.4.7.2	4 inch-diameter Core	\$ 14.33/inch
1.4.7.3	6 inch-diameter Core	\$ 21.49/inch
(Other sizes quoted upon request)		
1.4.8	FACE® Dipstick Floor Flatness/Floor Levelness Equipment	\$ 250.00/day
1.4.9	Air Content of fresh concrete (ASTM C173, C231)	\$ 23.00/ea
1.4.10	Unit Weight of fresh concrete (ASTM C138)	\$ 23.00/ea
1.4.11	Soil-Lime Field Gradation (TEX-101-E)	\$ 50.00/ea

2. LABORATORY TESTING

2.1 Soil		<u>Unit Rate</u>
2.1.1	Bulk Sample Pick-Up	\$ 71.64/hr
2.1.2	Sample Preparation (TEX-101-E)	\$ 143.28/ea
2.1.3	Natural Moisture Content	\$ 22.69/ea
2.1.4	Sieve Analysis (TEX-110-E)	\$ 83.58/ea
2.1.5	Atterberg Limits (Liquid and Plastic Limits)	\$ 89.55/ea
(TEX-104-E, TEX-105-E, TEX-106-E)		
2.1.6	Percent Passing No. 200 Sieve (TEX-111-E)	\$ 59.70/ea
2.1.7	Bar Linear Shrinkage of Soils (TEX-107-E)	\$ 59.70/ea
2.1.8	Moisture Density Relationship (ASTM D 698), (ASTM D 1557), (TEX-113-E), (TEX-114-E)	\$ 328.35/ea
2.1.9	Wet Ball Mill (TEX-116-E)	\$ 268.65/ea
2.1.10	Texas Triaxial Compression test on base material (TEX-117-E Part II)	\$2,746.20/ea
2.1.11	Soil Specific Gravity (TEX-108-E)	\$ 89.55/ea
2.1.12	Soluble Sulfates (TEX-145-E)	\$ 107.46/ea
2.1.13	Soil pH (TEX-128-E)	\$ 83.58/ea
2.1.14	Soil-Lime pH Series (6 points, TEX-121-E, Part III)	\$ 895.49/set
2.1.15	Free Swell Test	\$ 149.25/ea
2.1.16	Pressure Swell test	\$ 208.95/ea
2.1.17	Uniaxial Pressure-Strain test	\$ 107.46/ea
2.1.18	Hydrometer Analysis	\$ 268.65/ea
2.1.19	Unit Dry Weight Determination and Natural Water Content	\$ 35.82/ea
2.1.20	Unconfined Compression Test, Soil	\$ 77.61/ea
2.1.21	Unconfined Compression Test, Rock	\$ 89.55/ea
2.1.22	Unconsolidated-Undrained Triaxial Compression Test	\$ 107.46/ea



EXHIBIT D - RATE SCHEDULE

2.1.23	Consolidation Test, 7-load Increments.....	\$1,014.89/ea
	Additional Load Increments.....	\$ 149.25/ea
2.1.24	Permeability of Silt or Clay	\$ 471.63/ea
2.1.25	Sample Remolding	\$ 81.19/ea
2.1.26	Volumetric Shrinkage	\$ 113.43/ea
2.1.27	California Bearing Ratio (CBR)	\$ 286.56/ea
2.1.28	Box Resistivity of Soils (TEX-129-E)	\$ 137.31/ea
2.1.29	Swell or Settlement Potential-Cohesive Soil (ASTM D 4546)	\$ 328.35/ea
2.1.30	Crumb Test of Clayey Soils (ASTM D 6572)	\$ 57.31/ea
2.1.31	Organic Content (ASTM D 2974).....	\$ 85.97/ea
2.1.32	Determine Potential Vertical Rise (TEX-124-E).....	\$ 89.55/ea

2.2 Concrete and Cement

2.2.1	Aggregate Gradation Analysis (ASTM C136, TEX-200-F)	\$ 89.55/ea
2.2.2	Specific Gravity of Aggregate (ASTM C127, C128).....	\$ 89.55/ea
2.2.3	Absorption of Aggregate (ASTM C127, C128)	\$ 89.55/ea
2.2.4	Unit Weight of Aggregate (ASTM C29)	\$ 89.55/ea
2.2.5	Abrasion Test (TEX-410-A).....	\$ 292.53/ea
2.2.6	Decantation (TEX-406-A).....	\$ 53.73/ea
2.2.7	Organic Impurities (TEX-408-A).....	\$ 71.64/ea
2.2.8	Sodium Soundness of Aggregate (ASTM C88).....	\$ 507.45/ea
2.2.9	Concrete Cylinder Compressive Strength (ASTM C 39).....	\$ 26.27/ea
2.2.10	Beam Flexural Strength (ASTM C 78).....	\$ 107.46/ea
2.2.11	Mortar Cube Compressive Strength (ASTM C780).....	\$ 26.27/ea
2.2.12	Grout Specimen Compressive Strength (ASTM C1019)	\$ 59.70/ea
2.2.13	Concrete Masonry Unit Strength (ASTM C780).....	\$ 137.31/ea
2.2.14	Drilled Core Compressive Strength (ASTM C42).....	\$ 95.52/ea

2.3 Asphaltic Concrete / Fireproofing

2.3.1	Bag Sample Pick-Up.....	\$ 81.19/hr
2.3.2	Obtaining Field Cut Specimens (6-inch diameter, Min. 3/location).....	\$ 83.58/ea
2.3.3	Molding Test Specimens, Bulk Density, and Stability (3 per set)	\$ 185.07/set
2.3.4	Determine Maximum Theoretical Density	\$ 89.55/ea
2.3.5	Asphalt Content and Gradation (TEX-236-F, 200-F)	\$ 328.35/ea
2.3.6	Asphalt Oven Correction Factors (TEX-236-F, 200-F).....	\$1,552.20/ea
2.3.7	Bulk Specific Gravity of Asphalt Core	\$ 57.31/ea
2.3.8	Sand Equivalent	\$ 208.95/ea

3. REPORT PREPARATION

Special requests for archived report retrieval, re-distribution, faxing, hard-copy mailing, and preparation of engineered reports and submittals will be invoiced at the following rates:

3.1	Word Processing	\$ 89.55/hr
3.2	Drafting	\$ 101.49/hr
3.3	Reproduction (per page)	\$ 0.24/copy



EXHIBIT D - RATE SCHEDULE

4. ENGINEERING CONSULTATION AND MANAGEMENT

4.1	Senior Consultant/Project Principal	\$ 352.23/hr
4.2	Senior Project Manager/Senior Engineer.....	\$ 298.50/hr
4.3	Project Manager	\$ 232.83/hr
4.4	Project Engineer.....	\$ 214.92/hr
4.5	Project Geologist/Geophysicist.....	\$ 214.92/hr
4.6	Senior Geophysicist.....	\$ 250.74/hr
4.7	Laboratory Manager	\$ 208.95/hr
4.8	Graduate Engineer/Geologist/Professional.....	\$ 149.25/hr
4.9	Senior Engineering Technician.....	\$ 137.31/hr

Notes:

- 1) Fugro USA Land, Inc. has stopped providing Construction Materials Testing (CMT) services effective May 18, 2022. Please refer to Fugro letter, dated April 21, 2022, provided to Williamson County.
- 2) Laboratory test prices are FOB Fugro laboratory unless noted otherwise. Sample pick-up charges are additional.
- 3) Services required and not listed herein will be negotiated at the time of proposal request.
- 4) Charges for field testing equipment do not include personnel or travel charges.
- 5) Transportation charges are applicable for all field testing assignments, meetings, and site visits.

CPI ADJUSTMENT CALCULATION

BASE (1982-84) = 100	100	
May 2020 PSA SIGNED	245.696	Consumer Price Index, South Region — May 2020 : Southeast Information Office : U.S. Bureau of Labor Statistics (bls.gov)
March 2023	293.358	Consumer Price Index, South Region — March 2023 : Southeast Information Office : U.S. Bureau of Labor Statistics (bls.gov)
DELTA	19.40%	



Fugro USA Land, Inc.
8613 Cross Park Drive
Austin, TX 78754
T 512 977-1800

April 21, 2022

Mr. Bill Gravell, Jr.
Williamson County
710 S. Main Street, 2nd Floor
Georgetown, Texas 78626
bgravell@wilco.org

Dear Mr. Gravell,

This letter is to inform Williamson County that Fugro will be exiting the testing and inspection business to focus on our geotechnical site characterization and engineering services. Over the next four weeks we intend to phase out of existing materials testing projects and hope that you will be able to help us achieve this objective. We are requesting that we no longer receive call-outs or requests for technicians effective **May 18, 2022**.

We hope that you will keep our contract active as we look forward to being able to continue to provide geotechnical services for you. Our intention is to no longer receive Materials Testing Work Orders or Task Orders. Please transfer any future tasks that include field soils and concrete testing to other firms you may have an agreement with.

We will continue to maintain a validated geotechnical laboratory to support our geotechnical business, so if any lab specific services are needed, please consider us for such work. In addition, we will continue to perform geotechnical monitoring such as vibration monitoring and dynamic pile monitoring in support of our engineering functions.

We are grateful for the opportunities that Williamson County has provided to us in recent years.

Please let us know if you need any further information.

FUGRO USA LAND, INC.

Texas Engineering Firm F-299

A handwritten signature in blue ink that reads 'James R. Dedrick'.

James R. Dedrick, P.E.

CMET Manager, Austin and San Antonio