

CONTRACT AMENDMENT NO. 1
TO
WILLIAMSON COUNTY CONTRACT FOR
ENGINEERING SERVICES

**WILLIAMSON COUNTY ROAD BOND PROJECT: CHANDLER ROAD
EXTENSION (CORRIDOR B3) CORRIDOR PLANNING STUDIES (“Project”)**

THIS CONTRACT AMENDMENT NO. 01 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 **Huitt-Zollars, 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 June 4, 2019 (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 \$ 700,000; 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 Compensation Cap under Article 5 of the Contract is hereby increased from \$700,000 to \$1,100,000.
- II. 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.

Chandler Road Extension
June 2023 - June 2024
HOURLY RATE SHEET

Engineering

Principal	\$ 313.01
QA Manager	\$ 246.80
Sr. Project Manager	\$ 300.98
Project Manager	\$ 240.78
Sr. Civil Engineer	\$ 246.80
Sr. Structural Engineer	\$ 258.84
Civil Engineer	\$ 198.64
Structural Engineer	\$ 198.64
Engineer Intern	\$ 144.47
Sr. Designer	\$ 162.53
Designer	\$ 144.47
Sr. CADD Technician	\$ 156.51
CADD Technician	\$ 108.35

Administrative

Sr. Project Support	\$ 114.37
Project Support	\$ 84.27

CPI ADJUSTMENT CALCULATION	
BASE (1982-84) = 100	100
June 2019 PSA SIGNED	246.515
June 2023	296.789
DELTA	120.39%

Alliance Transportation Group 2019 Rates

Category	Loaded
Project Principal	270.00
Senior Project Manager	260.00
Project Manager	250.00
Senior Engineer	200.00
Project Engineer	172.00
Traffic or Design Engineer**	156.00
EIT	115.00
Engineer Tech	104.00
Jr Engineer Tech	67.00
Sr Engineer Tech	157.00
Transportation Planner I/II	95.00
Transportation Planer III	123.00
Travel Demand Modeler I	126.00
Travel Demand Modeler II/III	181.00
Senior Planner/ Modeler	203.00
Admin/Clerical	74.00
Project Administration	101.00

Approved June 4, 2019

CD&P 2019 Rates

Principal	\$200.00
Sr. Public Involvement Officer	\$160.00
Public Involvement Officer	\$120.00
Designer/Developer	\$100.00
Jr. Public Involvement Officer	\$ 75.00
Administrative	\$ 50.00
Intern	\$ 25.00

Approved June 4, 2019

Corsair Direct Labor Rates

Job Classification	Yrs Exp	Loaded Rate
Project Manager	10 to 20	\$ 223.90
Senior Engineer	15+	\$ 189.45
Project Engineer	10 to 15	\$ 152.66
Design Engineer	5 to 10	\$ 129.99
Engineer-In-Training	1 to 5	\$ 104.12
Senior Engineer Tech	15+	\$ 109.60
Engineer Tech	5 to 15	\$ 93.94
Junior Engineer Tech	1 to 5	\$ 72.02
Admin/Clerical		\$ 67.73
Field Engineer	5 to 10	\$ 140.92

Approved June 4, 2019

Corsair Unit Costs			Negotiated Rates
Services To Be Provided	Test Code	Unit	
Calcium Carbonate Content of Soils	ASTM D4373	each	\$ 55.00
California Bearing Ratio (Single Sample without MD Curve)	ASTM D1883	each	\$ 320.00
Casagrande Type Piezometers		each	\$ 50.00
Casagrande Type Piezometers Installation		each	\$ 360.00
Concrete/AC Patch		per patch	\$ 20.00
Core Drill Asphalt		each	\$ 60.00
Core Drill Concrete		each	\$ 120.00
Core Repair/Patch Asphalt Cold Mix		each	\$ 30.00
Core Repair/Patch Concrete-Utilibond		each	\$ 50.00
Core/drill operator/technician and coring equipment used to drill flexible and rigid pavement (2-man crew)		trip	\$ 320.00
Core/drill operator/technician and coring equipment used to drill flexible and rigid pavement (2-man crew) 4-in. diameter cores		Inch	\$ -
Core/drill operator/technician and coring equipment used to drill flexible and rigid pavement (2-man crew) 6-in. diameter cores		Inch	\$ -
Core/drill operator/technician and coring equipment used to drill flexible and rigid pavement (2-man crew): (a) 4-in. diameter cores		inch	\$ 24.00
Core/drill operator/technician and coring equipment used to drill flexible and rigid pavement (2-man crew): (a) Hot Mix Asphalt (min. of 3)		each	\$ -
Core/drill operator/technician and coring equipment used to drill flexible and rigid pavement (2-man crew): (b) 6-in. diameter cores		inch	\$ 180.00
Core/drill operator/technician and coring equipment used to drill flexible and rigid pavement (2-man crew): (b) Concrete (min. of 3) (up to 15 inches)(up to 4-inches diameter)		each	\$ -
Core/drill operator/technician and coring equipment used to drill flexible and rigid pavement (2-man crew): (c) Concrete (more than 15 inches)		inch	\$ -
Direct Shear Test of Soils Under Consolidated Drained Conditions	ASTM D3080	set of 3	\$ 546.00
Drilling & Sampling - Hard Rock-Diamond Bit		LF	\$ 35.00
Drilling & Sampling - Rock		LF	\$ 25.00
Drilling & Sampling - Soft Rock-Carbide Bit		LF	\$ 30.00
Drilling & Sampling - Soils		LF	\$ 21.00
Electronic Water Level Device		day	\$ 22.00
Falling Weight Deflectometer Testing		day	\$ 2,525.00
Modified Proctor Test	ASTM D1557	each	\$ 240.00
One Dimensional Consolidation Properties of Soil	ASTM D2435	each	\$ 425.00
One Dimensional Swell, Method C	ASTM D4546	each	\$ 190.00
One Dimensional Swell, Methods A & B	ASTM D4546	each	\$ 110.00
Permeability of Silt and Clays	ASTM D5084	each	\$ 375.00
Piezometer - 2"		foot	\$ 30.00
Piezometer Abandonment		each	\$ 150.00
Piezometer Completion / Abandonment (Including grouting)		each	\$ 300.00
Piezometer Completion		each	\$ 250.00
Piezometer Finish: (a) Flush Mount w/ 2' x 2' pad		each	\$ 250.00
Piezometer Finish: (b) Stick-up w/ 4 Bollards on a 4' x 4' pad		each	\$ 500.00
Piezometer-2" (including well completion and installation)		LF	\$ 35.00
Manhole Cover for Piezometer		each	\$ 43.00
Soil Boring/Rock Coring without TCP (> 60 ft.)		LF	\$ 25.00
Soil Boring with SPT	ASTM D1586	LF	\$ 21.00
Soil Boring without TCP (< 60 ft.):		LF	\$ 28.00
Soil Boring without TCP (< 60 ft.): (a) Utilizing Continuous Sampler	ASTM D1587	LF	\$ 32.00
Soil Boring without TCP (< 60 ft.): (b) Shelby Push Tubes Extruded in Field	ASTM D1587	LF	\$ 20.00
Soil Boring without TCP (< 60 ft.): (c) Auguring		LF	\$ 25.00
Soil Boring without TCP (> 60 ft.):		LF	\$ -
Soil Boring without TCP (> 60 ft.): (a) Utilizing Continuous Sampler	ASTM D1587	LF	\$ 26.00
Soil Boring without TCP (> 60 ft.): (b) Shelby Push Tubes Extruded in Field	ASTM D1587	LF	\$ 38.00
Soil Boring/Rock Coring without TCP (< 60 ft.)		LF	\$ 38.00

Soil Boring/Rock Coring with TCP (< 60 ft.)	Tex-132-E	LF	\$ 38.00
Soil Boring/Rock Coring with TCP (> 60 ft.)	Tex-132-E	LF	\$ 40.00
Splitting Tensile of Intact Rock Core	ASTM D3967	each	\$ 95.00
Stand By of Crew		hour	\$ 180.00
Standard Guide for Comparison of Field Methods for Determining Hydraulic Conductivity in Vadose Zone	ASTM D5126	each	\$ 300.00
Standard Penetration Test (SPT)	ASTM D1586	each	\$ 30.00
Standard Proctor Test	ASTM D698	each	\$ 230.00
Standard Test Method for Dispersive Characteristics of Clay Soil by Double Hydrometer	ASTM D4221	each	\$ 140.00
Standard Test Method for Hydraulic Conductivity of Essentially Saturated Peat	ASTM D4511	each	\$ 250.00
Standard Test Method for Permeability of Granular Soils (Constant Head)	ASTM D2434	each	\$ 325.00
Standard Test Methods for Determining Dispersive Characteristics of Clayey Soils by the Crumb Test	ASTM D6572	each	\$ 34.00
Standard Test Methods for Identification and Classification of Dispersive Clay Soils by the Pinhole Test	ASTM D4647	each	\$ 175.00
Suction Test (Filter Method)	ASTM D5298	each	\$ 75.00
Unconfined Compressive Strength (Rock)	ASTM D2938	each	\$ 70.00
Unconfined Compressive Strength (Soil)	ASTM D2166	each	\$ 55.00
Vertical Inclinerometer		each	\$ 310.00
Vertical Inclinerometer Installation		each	\$ 750.00
Vibrating Wire Piezometer		each	\$ 750.00
Vibrating Wire Piezometer Installation		each	\$ 800.00
Volumetric Shrinkage	ASTM D427	each	\$ 90.00
Water Stand Pipes	ASTM D4043	LF	\$ 32.00
Determining Moisture Content in Soil Materials	Tex-103-E	each	\$ 12.00
Determining Liquid Limits of Soils	Tex-104-E	each	\$ 35.00
Determining Plastic Limit of Soils	Tex-105-E	each	\$ 35.00
Calculating the Plasticity Index of Soils	Tex-106-E	each	\$ 25.00
Particle Size Analysis of Soils	Tex-110-E	each	\$ 85.00
Determining the Amount of Material in Soils Finer than the 75 micrometer (No. 200) Sieve	Tex-111-E	each	\$ 45.00
Laboratory Compaction Characteristics and Moisture-Density Relationship of Base Materials	Tex-113-E	each	\$ 270.00
Laboratory Compaction Characteristics and Moisture-Density Relationship of Subgrade, Embankment Soils, and Backfill Materials	Tex-114-E	each	\$ 270.00
Triaxial Compression Test for Disturbed Soils and Base Materials	Tex-117-E	each	\$ 1,300.00
Triaxial Compression Test for Undisturbed Soils	Tex-118-E	each	\$ 1,300.00
Determining Potential Vertical Rise	Tex-124-E	each	\$ 45.00
Measuring Thickness of Pavement Layer	Tex-140-E	each	\$ 15.00
Manual Procedure for Description and Identification of Soils	Tex-141-E	each	\$ 15.00
Laboratory Classification of Soils for Engineering Purposes	Tex-142-E	each	\$ 49.00
Bentonite Grouting of Boreholes - Bentonite Chips		LF	\$ 9.00
Backfill Borings		LF	\$ 5.00
ATV-Mounted Drilling Rig Surcharge		each	\$ 550.00
Organic Content	ASTM D2974	each	\$ 65.00
Dynamic Cone Penetrometer	ASTM D6951	each	\$ 100.00
Admixing Lime to Reduce Plasticity Index of Soils	TEX-112-E	each	\$ 100.00
Soil-Cement Compressive Strength, (Part II)	Tex-120-E	each	\$ 240.00
Soil-Lime Testing (Part 1) (Includes TEX-113-E)	Tex-121-E	Per Series	\$ 1,350.00
Soil-Lime Compressive Strength, (Part II)	Tex-121-E	each	\$ 1,350.00
Soil-Lime Testing - Part 3	Tex-121-E	each	\$ 42.00
Determining Soil pH	Tex-128-E	each	\$ 40.00
CU Triaxial Compression for Undisturbed Soils - Single Stage	Tex-131-E	set of 3	\$ 500.00
CU Triaxial Compression for Undisturbed Soils - Multiple Stage	Tex-131-E	set of 3	\$ 1,350.00
Texas Cone Penetration	Tex-132-E	each	\$ 28.00
Determining Sulfate Content in Soils - Colorimetric Method	Tex-145-E	each	\$ 45.00
Conductivity Test for Field Detection of Sulfates in Soil	Tex-146-E	each	\$ 45.00
Ground Penetrating Radar (GPR) - Data Collection	ASTM D4748	hour	\$ 325.00
Ground Penetrating Radar (GPR) - Processing	ASTM D4748	hour	\$ 160.00
Inclinometer Casing Installation		LF	\$ 30.00
Inclinometer Casing Installation		LF	\$ 30.00

Drilling Crew Daily Travel to Jobsite		Day	\$ 250.00
3 Man Clearing Crew with Chainsaws, Chipper		Day	\$ 2,900.00
Determine Chloride and Sulfate and Sulfate Content in Soils	TEX 620-J	each	\$ 58.00
Night Drilling Surcharge		each	\$ 500.00
Ground Penetrating Radar Testing (stand-alone)		day	\$ 2,600.00
Ground Penetrating Radar Testing (attached to FWD)		day	\$ 550.00
Light Tower (for night drilling)		per night	\$ 190.00
Mobilization of Traffic Control (Trips over 100 miles from office to site)		mile	\$ 5.00
Mobilization of Drilling Rig (Trip Less than 100 miles from office to site)		each	\$ 450.00
Mobilization of Drilling Rig (Trip over 100 miles from office to site)		mile	\$ 6.00
Linear Bar Shrinkage of Soils	Tex-107-E	each	\$ 41.00
Mobilizing and Demobilizing (Rig and Crew)		mile	\$ 5.50
Mobilizing and Demobilizing (FWD Equipment)		mile	\$ 5.50
Weekend commuting (per crew)		mile	\$ 4.50
Daily drilling rate		daily	\$ 2,500.00
Hourly drilling rate BARGE DRILLING		hour	\$ 600.00
Minnimum drilling rate		daily	\$ 1,500.00

Approved June 4, 2019



SAM, LLC RATE SCHEDULE FOR YEAR 2019

SURVEYING SERVICES:

Principal	\$215.00 per hour
RPLS Project Manager	\$175.00 per hour
RPLS Task Leader	\$158.00 per hour
Senior Survey Technician	\$98.00 per hour
Survey Technician	\$89.00 per hour
2-Person Survey Crew	\$140.00 per hour
3-Person Survey Crew	\$165.00 per hour
Administration / Clerical Support	\$68.00 per hour

SURVEY EQUIPMENT:

GPS Receiver	\$25.00 per hour
ATV or Utility Vehicle	\$75.00 per day

GEOSPATIAL SERVICES:

Principal	\$215.00 per hour
Senior Project Manager	\$205.00 per hour
Project / Acquisition Manager	\$165.00 per hour
Pilot	\$130.00 per hour
Two (2) Person UAS Crew – Unmanned Pilot & Observer	\$195.00 per hour
Three (3) Person UAS Crew – Unmanned Pilot & 2 Observers	\$325.00 per hour
Photogrammetrist / Project Lead	\$115.00 per hour
Acquisition / Calibration / Aerial Triangulation Technician	\$98.00 per hour
LiDAR / Photogrammetry Technician	\$95.00 per hour

GEOSPATIAL EQUIPMENT:

Aerial LiDAR System 1560I (Equipment Only)	\$1300.00 per hour
Aerial LiDAR System HARRIER 68I (Equipment Only)	\$700.00 per hour
Mobile Mapping System	\$750.00 per hour
Mobile Mapping Equipment Stand-by Fee (Equipment Only)	\$200.00 per hour
HDS Laser Scanner	\$100.00 per hour
High Rail Equipped Vehicle	\$10.00 per hour
Weather Station	\$10.00 per hour
Oblique HD Camera System – Manned Aircraft	\$30.00 per hour
Video Camera System – Manned Aircraft	\$5.00 per hour
360° Camera System – Terrestrial or Marine Stand Alone	\$100.00 per hour
Helicopter (Turbine Engine Powered)	\$1,450 per hour
Helicopter (Reciprocal Engine Powered)	\$850.00 per hour
Fixed Wing Twin Engine	\$960.00 per hour
Fixed Wing Single Engine	\$600.00 per hour
M600 Unmanned Aerial System– Video / Still Photos	\$150.00 per hour
M600 UAS Standby – Video / Still Photos	\$75.00 per hour
VAPOR Unmanned Aerial System – IR / Corona / LiDAR	\$500.00 per hour
VAPOR UAS Standby – IR / Corona / LiDAR	200.00 per hour
GPS Receiver (Equipment Only)	\$25.00 per hour
Geospatial Work Station	\$15.00 per hour

2019 LABOR CATEGORIES AND BILLING RATES

Principals & Project Management Staff

Project Manager III.....	\$89.00	Project Manager IX.....	\$153.00
Project Manager IV.....	\$99.00	Project Manager X.....	\$171.00
Project Manager V.....	\$109.00	Project Manager XI.....	\$187.00
Project Manager VI.....	\$119.00	Project Manager XII.....	\$205.00
Project Manager VII.....	\$131.00	Principal-in-Charge.....	\$285.00
Project Manager VIII.....	\$142.00		

Consulting Services

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

Specialist I.....	\$67.00	Specialist IX.....	\$153.00
Specialist II.....	\$79.00	Specialist X.....	\$171.00
Specialist III.....	\$89.00	Specialist XI.....	\$187.00
Specialist IV.....	\$99.00	Specialist XII.....	\$205.00
Specialist V.....	\$109.00	Subject Matter Expert.....	\$210.00
Specialist VI.....	\$119.00		
Specialist VII.....	\$131.00	Technician I.....	\$47.00
Specialist VIII.....	\$142.00	Technician II.....	\$55.00

Administrative

Administrative I.....	\$42.00	Administrative V.....	\$89.00
Administrative II.....	\$53.00	Administrative VI.....	\$101.00
Administrative III.....	\$66.00	Administrative VII.....	\$113.00
Administrative IV.....	\$77.00	Administrative VIII.....	\$125.00