

WORK AUTHORIZATION NO. 9

PROJECT: Design Survey Services & ROW Delineation Within Live Oak & South San Gabriel Ranches Subdivisions

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Surveying Services, being dated **February 9, 2015** and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and **Surveying And Mapping, LLC (SAM)** (the "Surveyor").

Part 1. The Surveyor will provide the following Surveying 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 **\$100,000.00**.

Part 3. Payment to the Surveyor 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 **June 30, 2020**. The Surveying 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. Surveyor 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 Surveyor 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 Surveyor.

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

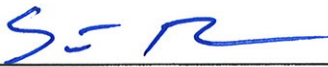
EXECUTED this ____ day of _____, 2019.

SURVEYOR:

Surveying And Mapping, LLC (SAM)

COUNTY:

Williamson County, Texas

By: 
Signature

By: _____
Signature

Scott Brashear
Printed Name

Bill Gravell, Jr.
Printed Name

Project Manager
Title

Williamson County Judge
Title

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Surveyor

Attachment C - Work Schedule

Attachment D - Fee Schedule

Attachment A - Services to be Provided by County

The County shall:

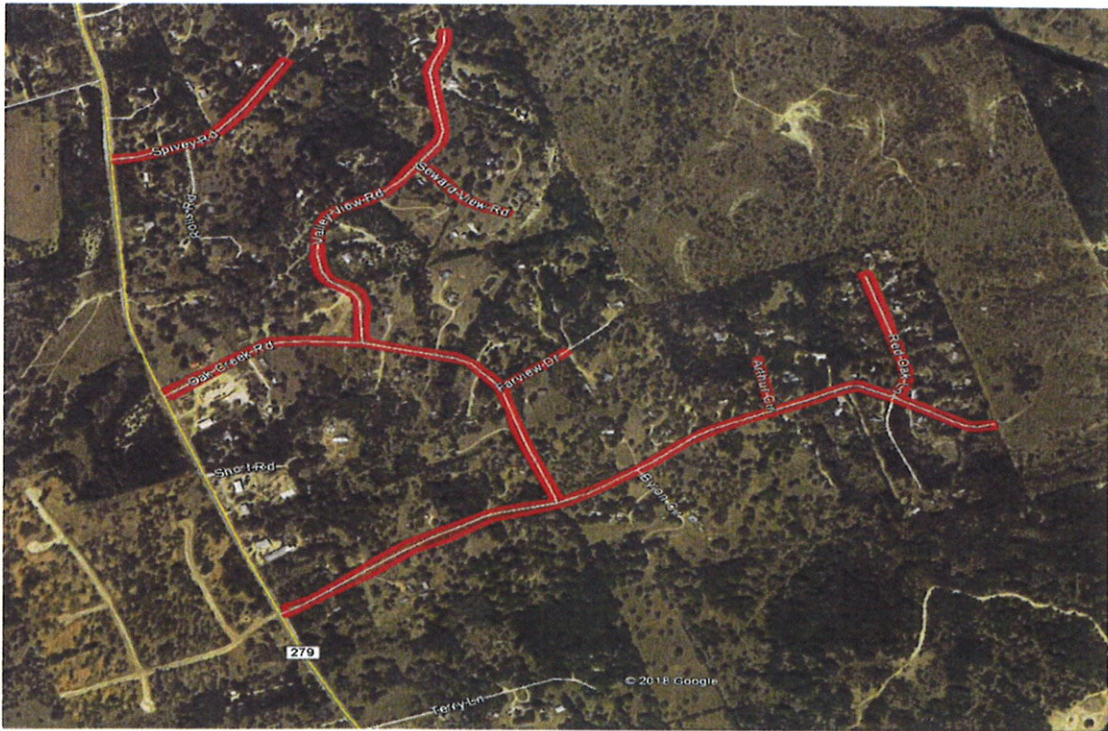
- A. Designate a project manager to serve as the County's point of contact with the Surveyor.
- B. Provide the specification requirements for all surveys.
- C. Provide timely reviews and decisions necessary to enable the Surveyor to maintain an agreed upon project schedule as developed in Attachment C.
- D. It is assumed the Right-of-Entry (ROE) will not be required during this Work Authorization. If ROE is required, Williamson County will coordinate with the Property Owners prior to the Surveyor entering private property.

ATTACHMENT B
SERVICES TO BE PROVIDED BY THE SURVEYOR (SAM)

Project Limits –

Throughout Live Oak Subdivision, Live Oak Road from city limits to east end (4,480'), Red Oak Lane (1,152'), Arthur Circle (474'), Oak Creek Road from city limits to Live oak Road (3,028'), Fairview Circle (562'), Valley View Road (3,318'), Seward View Road (790'), & Spivey Road from city limits to east end (734'). As depicted in Exhibit "A".

Exhibit "A"



Throughout South San Gabriel Ranches Subdivision, Baker Lane (3,784'), Jennifer Lane (1,042'), Hawkins Drive from Baker Lane to begin of curve (510'), Norwood Drive (712'), & Mikes Way from Baker Lane to the south property line of 240 Mikes Way (1,130'). As depicted in Exhibit "B".

Exhibit "B"



Project Control

The Surveyor shall establish horizontal & vertical control including a minimum of 5 points within the survey project limits at Live Oak subdivision and a minimum of 3 points at South San Gabriel Ranches subdivision. The survey control points (5/8" iron rods with Williamson County caps) will be set in locations that will likely be undisturbed by construction or maintenance. The project control will be placed on horizontal & vertical datum's [NAD83/2011/NAVD88 values (Texas Coordinate System, Central Zone)] with a scale factor of 1.00012 or as provided by the county. Elevations will be derived from GPS observations using Geoid 2012B model. Secondary control points will be set throughout the project corridors as needed to complete the scope of work.

Design/Topographic Survey

- I. SAM will obtain design survey data within the project limits at approximate 50' intervals and major grade breaks necessary to produce a one-foot interval contour DTM. This data will typically include as follows: edge of pavement/gutter & back of curb, crown (physical centerline), roadway striping, top and bottom of drainage ditches, sidewalk, fences, guardrails, signs (with text), mailboxes, retaining walls, paved areas, buildings, driveways (with type noted), driveway pipes, visible utilities

and visible evidence of underground utilities only. Design survey limits will be from fence line to fence line within the existing right-of-way. No trees will be located during this work authorization.

Right-of-Way Delineation Survey

- I. Upon notice to proceed, the Surveyor will conduct research at the Williamson County Appraisal District/County Clerk's Office in order to obtain the most recent plat & right-of-way information. The Surveyor will recover monuments/front property corners marking the existing ROW lines (if any). This shall be done in conjunction with the design survey. Utilizing the records research and data collected from the field survey, the Surveyor shall determine locations of the existing ROW lines.

Project Deliverables (same deliverables for each site)

- a. 2D planimetrics & 3D DTM (Microstation V8i)
- b. GPK & TIN file
- c. 1-Foot Contour map in Microstation V8i DGN format
- d. 2D DGN of existing ROW delineation
- e. PDF Field Book copies
- f. ASCII file of points

ADDITIONAL SERVICES - In addition to the services described in the foregoing Scope of Services, the SURVEYOR can provide additional services if requested by Williamson County, on a time and materials basis, after submittal of an estimated budget and receipt of written authorization. These additional services could include, but are not limited to, the following:

- ROW surveying and mapping services beyond that scoped herein
- Replacement of any missing control monumentation
- Subsurface Utility Engineering services.
- Additional surveying to support engineering and or architectural design, beyond the scope described herein.
- Obtaining permission to access adjoining properties.
- Providing construction surveying or layout services
- Safeguarding or maintenance of control or benchmarks during construction.

ATTACHMENT C - WORK SCHEDULE

Surveying and Mapping, LLC

	Week 1 (3/4)	Week 2 (3/11)	Week 3 (3/18)	Week 4 (3/25)	Week 5 (4/1)	Week 6 (4/8)	Week 7 (4/15)
Establish Project Control							
Collect Design Survey							
Locate Existing Right of Way							
QA/QC & Prepare Final Deliverables							
Williamson County Review							

* Dependant upon weather and Right-of-Entry

SAM, LLC has sufficient office & field staff available to accommodate accelerated work schedules that may become necessary during the course of the project. Please contact us immediately upon becoming aware of this situation to discuss compressing the schedule, along with associated fees, to deliver the final product to meet the new deadline.

**ATTACHMENT D
TIME & MATERIALS PAYMENT BASIS
SURVEY SERVICES**

Project: Wilco Road Topo/ROW Delineation
Proposal Number: 1019048091

TASK DESCRIPTION	SENIOR PROJECT MANAGER	PROJECT MANAGER	STAFF SURVEYOR	SENIOR SURVEY TECHNICIAN	SURVEY TECHNICIAN	2-PERSON SURVEY CREW	3-PERSON SURVEY CREW	FIELD COORDINATOR	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS
Control Survey	1	2		10	10	50				\$5,595.00
Topo/ROW Survey (Live Oak Subdivision)				16	40	250				\$37,140.00
Abstract Map	8	24		48	24					\$10,400.00
Final Deliverables	1	2			8					\$1,035.00
										\$0.00
Control Survey	1	2		10	10	30				\$5,595.00
Topo/ROW Survey (South San Gabriel Ranches Subdivision)				12	30	150				\$22,950.00
Abstract Map	4	16		30	16					\$6,560.00
Final Deliverables	1	2			8					\$1,035.00
										\$0.00
SUB-TOTALS	16	48	0	126	146	480	0	0	0	\$93,740.00
HOURS SUB-TOTALS	16	48	0	126	146	480	0	0	0	816
CONTRACT RATE PER HOUR	\$145.00	\$125.00	\$110.00	\$90.00	\$80.00	\$130.00	\$160.00	\$85.00	\$60.00	
TOTAL LABOR COSTS	\$2,320.00	\$6,000.00	\$0.00	\$11,340.00	\$11,680.00	\$62,400.00	\$0.00	\$0.00	\$0.00	\$93,740.00

OTHER DIRECT EXPENSES	QUANTITY	# OF UNITS	COST/UNIT							
Mileage (number x current state rate)		3600	\$0.545							\$1,962.00
GPS Receiver		120	\$25.00							\$3,000.00
Counter Services			\$30.00							\$0.00
Deed Copies		50	\$1.00							\$50.00
SUBTOTAL DIRECT EXPENSES										\$5,012.00

SUMMARY		
	LABOR COSTS	\$93,740.00
	NON-SALARY (OTHER DIRECT EXPENSES)	\$5,012.00
	TOTAL SAM SURVEY	\$98,752.00