

WORK AUTHORIZATION NO. 5
PROJECT: CR 118 ROW SURVEYS

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Surveying Services, being dated May 19, 2020 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Surveying And Mapping, LLC (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 \$65,722.50.

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 December 31, 2021. 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 19th day of January, 2021.

SURVEYOR:

Surveying And Mapping, LLC (SAM)

By: 
Signature

Scott Brashear

Printed Name

Project Manager

Title

COUNTY:

Williamson County, Texas

By: 
Signature

Bill Gravell, Jr.

Printed Name

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:

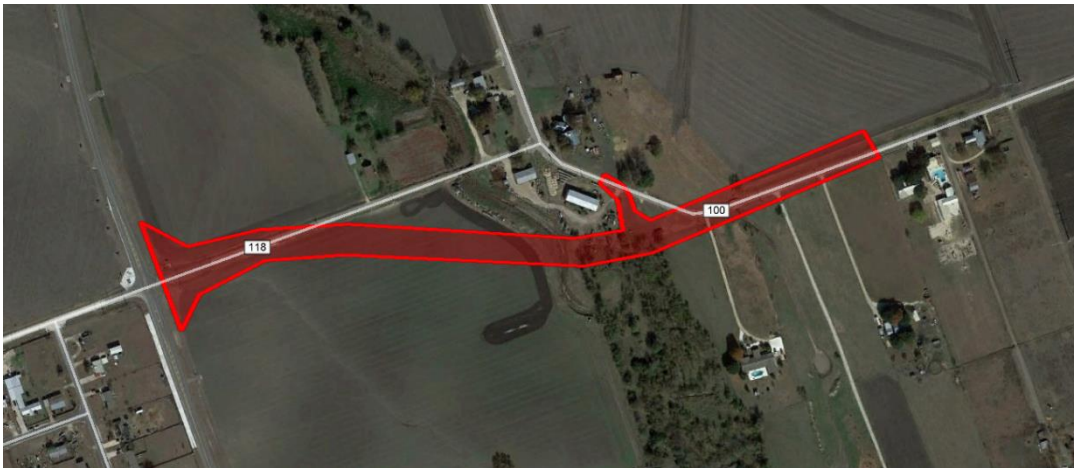
- A. Designate a project manager to serve as the County's point of contact with the Surveyor.
- B. Provide the specification requirements for all surveys.
- C. Provide timely reviews and decisions necessary to enable the Surveyor to maintain an agreed upon project schedule as developed in Attachment C.
- D. The horizontal datum for this project will be NAD83 (2011) Texas Coordinate System, Central zone, with a scale factor of 1.00012 or as provided by the county.
- E. Vertical values for this project will be based on NAVD88, GEOID 12B.
- F. It is assumed that Williamson County will handle problems regarding any and all refusal to grant Right of Entry or communication with land owners who are hostile with respect to the completion of this Work Authorization.

Attachment B - Services to be Provided by Surveyor (SAM)

Project Limits –

Along the proposed CR 118 Corridor from CR 119 to approximately 1,300 feet southeast of the CR 118/CR 100 intersection. Approximate project limits graphically depicted in Exhibit A below.

Exhibit “A”



Project Control

SAM shall recover and utilize the existing control points previously established during TxDOT Work Authorization conducted in spring of 2020. If necessary SAM shall establish up to 2 additional primary survey control points. Primary control points shall consist of 5/8” iron rods with Williamson County caps. The primary survey control points will be set in locations that will likely be undisturbed by construction or State maintenance. The project control will be placed on horizontal and vertical datums [NAD83/2011/NAVD88 values (Texas Coordinate System, Central Zone)]. All coordinates will be adjusted to surface by multiplying by a surface adjustment factor of 1.00012, or as provided by the County. Elevations will be derived from GPS observations using Geoid 2012B model.

ROW Mapping (up to 10 Parcels)

Right of Entry

SAM shall attempt to obtain right-of-entry (ROE) for approximately 10 private properties for the purpose of collecting ROW survey data. SAM anticipates that Williamson County will handle

problems regarding any and all refusal to grant ROE or communication with private property owners who are hostile with respect to the completion of this scope of services. SAM shall document any interactions with property owners while performing the work.

Records Research and Deed Study

Upon notice to proceed, SAM will conduct research in the Williamson County Appraisal District offices to confirm property ownership for the 10 affected properties (subject properties). Concurrently, copies of the current deeds and any plats for all subject properties will be obtained from the County Clerks' records. SAM anticipates that Title Commitments, Title Reports, and any other form of records research beyond obtaining current deeds and plats will be provided by others. Obtaining any additional records (including easements, chain of title, or any encumbrances) is outside of this scope of services.

Field Surveys

SAM will recover monuments marking the existing ROW lines (if any) and the front corners of the properties from which ROW is to be obtained and will tie to the project control. SAM will recover the corner or angle point monuments nearest to the proposed ROW on the side line of each of the subject properties and these corners will be tied to the project control after ROE has been granted.

Boundary Analysis

Utilizing the deed study and the data from the field survey, SAM will analyze the results of the survey and perform computations related to the analysis. Location of the existing ROW lines and the side property lines of each of the subject properties will be determined by SAM.

Preparation of Documents

Documents will be submitted in two rounds (preliminary and final). Preliminary ROW documents shall be submitted based upon found monumentation within the existing ROW. Final ROW documents shall be submitted at a later date once ROE has been granted and the property boundaries finalized.

- a) SAM will develop a base file showing ownership of the subject properties. Properties adjacent to the existing/proposed right of way within the project limits will be labeled with the owner's name and deed recordation information.
- b) Utilizing the boundary surveys performed by SAM and the proposed ROW line location provided by Williamson County, SAM will compute the boundaries of the ROW parcels for each of the subject properties.
- c) SAM will draft plats for the 10 parcels for ROW acquisition. The plats will be prepared on 8 1/2" x 11" pages at a scale dependent upon parcel size. A closure computation will be prepared for each of the plats.
- d) SAM will prepare a field note (metes and bounds) description for each of the 10 parcels. A closure computation will be prepared for each of the descriptions.
- e) To assure the accuracy of the documents, SAM will read the descriptions while all details are compared to ROW plans and parcel plats (bearings, distances, stations and offsets, deed references, etc.). Final mark-ups will be made and corrections completed.

- f) All of the above described survey documents (plans, property descriptions parcel plats and closure computations) will be submitted to the County for a one time review. Upon the completion of review of all ROW survey documents, SAM will make necessary corrections. The final ROW documents will then be delivered to the County.

Monumentation

5/8-inch iron rod with “Williamson County” aluminum caps will be set at PCs, PTs, angle points and at no greater than 1,000 foot intervals along tangents on the proposed right-of-way line (up to 36 total).

Project Deliverables

SAM will provide all files via secure ftp site and/or on a portable hard drive.

- Word doc file of surveyed points list and TxDOT descriptor code list.
- PDF file of scanned field book copies
- One preliminary legal description for each parcel (PDF)
- One final legal description for each parcel (signed and sealed) (PDF)
- One preliminary individual survey plat on 8 1/2”x11” for each parcel (PDF)
- One individual survey plats on 8 1/2”x11” for each parcel (signed and sealed)(PDF)
- One set of area computation sheets for legal descriptions and plats for all parcels
- Digital files on CD for the right-of-way base file and reference files in Microstation V8i (.dgn) format

ATTACHMENT C - WORK SCHEDULE							
Surveying and Mapping,LLC							
	Week 1 (1/18)	Week 2 (1/25)	Week 3 (2/1)	Week 4 (2/8)	Week 5 (2/15)	Week 6 (2/22)	Week 7 - Week 44 (3/1 - 12/27)
Verify/Establish Project Control							
Field Surveys							
Prepare Preliminary ROW Documents							
QA/QC & Prepare Final Deliverables							
Set ROW Monumentation							
Williamson County Review							
* Dependant upon weather 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: WA # 5 CR 118 ROW Surveys
Proposal Number: 1019052774E

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
Recover Existing Control (Establish Up to 2 new points if necessary)	1	2		4	4	10				\$2,882.00
Records Research and Deed Study	2	4		12	8					\$3,104.00
Field Surveys	2	6		16	16	70				\$15,498.00
Boundary Analysis	2	8		20	16					\$5,408.00
Prepare Preliminary ROW Documents (Up to 10 parcels)	2	10		80	40					\$14,680.00
Right of Entry Coordination		2		2	8					\$1,324.00
Prepare Final ROW Documents (Up to 10 parcels)	1	6		40	40					\$9,460.00
Establish ROW Monumentation (Up to 36 iron rods)	1	4		8	8	50				\$10,234.00
										\$0.00
SUB-TOTALS	10	40	0	178	136	120	0	0	0	\$62,590.00
HOURS SUB-TOTALS	10	40	0	178	136	120	0	0	0	484
CONTRACT RATE PER HOUR	\$180.00	\$160.00	\$135.00	\$110.00	\$98.00	\$155.00	\$195.00	\$105.00	\$75.00	
TOTAL LABOR COSTS	\$1,800.00	\$6,400.00	\$0.00	\$19,580.00	\$13,328.00	\$18,600.00	\$0.00	\$0.00	\$0.00	\$62,590.00

OTHER DIRECT EXPENSES		# OF UNITS	COST/UNIT							
Mileage (number x current state rate)		1100	\$0.575							\$632.50
GPS Receiver		100	\$25.00							\$2,500.00
										\$0.00
										\$0.00
SUBTOTAL DIRECT EXPENSES										\$3,132.50

SUMMARY		
LABOR COSTS		\$62,590.00
NON-SALARY (OTHER DIRECT EXPENSES)		\$3,132.50
TOTAL SAM SURVEY		\$65,722.50