

WORK AUTHORIZATION NO. 6

PROJECT: Surveying Services - L20 relocation for the Tracy Chambers Lane extension

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 & Mapping (SAM) LLC (the "Surveyor").

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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 \$35,791.50.

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 November 30, 2017. 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 10 day of October, 2017.

SURVEYOR:

Surveying & Mapping (SAM) LLC

By: *Patrick A. Smith*
Signature

PATRICK A. SMITH
Printed Name

VICE PRESIDENT
Title

COUNTY:

Williamson County, Texas

By: *Valerie Covey*
Signature

Valerie Covey
Printed Name

County Commissioner Rt 3
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

- A. The County will provide the specification requirements for all surveys.
- B. The County will provide right of entries to access private properties for the Surveyor to stake the proposed gas line easements.
- C. The County will provide aluminum caps to be used as markers for the limits of the proposed gas line easements.

Attachment B - Services to be Provided by Surveyor

Surveying – Surveying And Mapping, LLC (Surveyor) – Surveying Tasks will include:

1. Project Control

I. The SURVEYOR will utilize the WDS network to establish horizontal and vertical control including a minimum of four (4) primary survey control points within the survey limits. The survey control points (5/8 inch iron rods with “SAM Control” plastic caps) will be set in locations that will likely be undisturbed by construction or County maintenance. The project control will be placed on horizontal and vertical datums [NAD83/93/NAVD88 values (Texas Coordinate System, Central Zone)], with a Surface Adjustment Factor to be provided by Williamson County. Elevations will be derived from GPS observations using Geoid 2012A model.

2. Right of Way Surveys (up to 5 Easement parcels)

I. Right of Entry – Williamson County will obtain written ROE from the landowners for the purpose of gaining access for survey along the proposed ATMOS gas line easements. The SURVEYOR will contact affected land owners, from which ROE has been obtained by others, prior to commencing any work on private property. The SURVEYOR anticipates that Williamson County will handle problems regarding any and all refusal to grant ROE or communication with land owners who are hostile with respect to the completion of this scope of services. The SURVEYOR will document any interactions with land owners while performing the work. Gaining ROE from all land owners in a timely manner will be critical to the success and efficiency in meeting deadlines for this project.

II. Records Research and Deed Study - Upon notice to proceed, the SURVEYOR will conduct research at the Williamson County Appraisal District to confirm property ownership for the up to five (5) affected properties (subject properties). Based upon the records obtained, the Surveyor will prepare a working drawing of the deeds and ROW information to be used for a preliminary basemap. This basemap will be utilized in the preparation of the easement surveys.

III. Field Surveys - The SURVEYOR 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 the monumentation found to the project control. The SURVEYOR 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.

IV. Boundary Analysis - Utilizing the deed study and the data obtained from the field survey, the SURVEYOR will analyze the results of the survey and perform computations to determine locations of ROW lines and the side property lines of each of the subject properties.

V. Prepare Easement Descriptions (5 Gas Line Easements)

- a) The Surveyor will develop a base file showing ownership of the subject properties and any easements found during the title abstract, if any. Properties adjacent to the existing right of way and proposed easement within the project limits will be labeled with the owner's name and deed recording information.
- b) Utilizing the boundary surveys performed by the Surveyor and the proposed easement line locations provided by the County, the Surveyor will compute the boundaries of the easement parcels for each of the subject properties.
- c) The Surveyor will draft plats for the 5 easements. The plats will be prepared on 8 1/2" x 11" pages. A closure computation will be prepared for each of the plats.
- d) The Surveyor will prepare a field note (metes and bounds) description for each of the 5 easements. A closure computation will be prepared for each of the descriptions.
- e) To assure the accuracy of the documents, the Surveyor will read the descriptions while all details are compared to the easement 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 will be submitted to the County for review. Upon the completion of review of all easement documents, the Surveyor will make any necessary corrections. The final easement documents will then be delivered to the County.

VI. Monumentation - The Surveyor shall monument the proposed gas line easements, using 5/8-inch iron rods with aluminum caps stamped "Williamson County ROW" (assume 60 total).

VII. Deliverables

- a. Three legal description for each easement (signed and sealed)
- b. Three individual survey plat on 8 1/2" x 11" paper for each easement (signed and sealed)
- c. One set of area computation sheets for legal descriptions and plats
- d. Digital files on CD for ROW basemap and reference files

Attachment C - Work Schedule

1. Work will commence after execution of the work authorization.
2. Proposed easement limits will be staked as requested in writing by the County. Staking requests will be sent to the Surveyor a minimum of 48 hours prior to the staking being required for a particular easement.
3. It is assumed that all easements (total of 5) will be staked one time with a total of 5 visits (mobilizations) to complete the staking.
4. Work shall be completed by October 31, 2017. This schedule is based on a Notice to Proceed date of October 1, 2017.

Attachment D - Fee Schedule

See attached.

**Attachment D- FEE SCHEDULE
TIME AND MATERIALS PAYMENT BASIS**

Project: Williamson County Atmos Gas Line Easements
Limits: West of Hutto Road to 130' South of SE Inner Loop
Client: Williamson County, Texas
Date: September 25, 2017
Proposal No.: 1017041214

TASK DESCRIPTION	PROJECT MANAGER	STAFF SURVEYOR	SURVEY TECHNICIAN	TECHNICIAN	PERSON SURVEY FIELD CREW	PERSON SURVEY FIELD CREW	COORDINATOR	SUPPORT	LABOR HRS @ COSTS	DWG	PER SHEET
RIGHT-OF-WAY SURVEYS AND MAPS											
1 - ESTABLISH HORIZONTAL SURVEY CONTROL - UP TO 4 POINTS	2			8	12				\$2,450.00		
2 - RIGHT-OF-WAY (COORDINATION WITH WILLIAMSON COUNTY)		3		3					\$120.00		
3 - RECORD RESEARCH	2	8	8	8					\$1,720.00		
4 - DEED STUDY	2	8	8	8					\$1,720.00		
5 - FIELD SURVEYS	1	3	4	8	40				\$2,415.00		
6 - PREPARE EASEMENT FIELD NOTES AND PLATS - UP TO 3 EASEMENTS	4	8	30	40					\$2,200.00		
7 - MORTGAGEMENT (includes 88 total mortgages)	1	1	2	2	28	28			\$1,600.00		
8 - PREPARE FINAL DELIVERABLES	2	2	8	8				1	\$1,720.00		
									\$0.00		
									\$0.00		
									\$0.00		
									\$0.00		
									\$0.00		
SUB-TOTAL	24	24	82	72	122	28	0	1	\$11,815.00		
TOTAL LABOR COSTS	\$1,710.00	\$2,640.00	\$5,580.00	\$5,320.00	\$15,810.00	\$1,400.00	\$0.00	\$40.00			
SUB-TOTAL											
OTHER DIRECT EXPENSES											
Storage (number x current rate / 100)	800	\$0.54							\$481.50		
GPS Rental	60	\$23.00							\$1,500.00		
SUB-TOTAL DIRECT EXPENSES									\$1,981.50		
SUMMARY											
TOTAL COSTS									\$13,810.00		
NON-SALARY (OTHER DIRECT EXPENSES)									\$1,561.50		
TOTAL BAM SURVEY									\$15,791.50		