

SUPPLEMENTAL WORK AUTHORIZATION NO. 1
TO
WORK AUTHORIZATION NO. 1

WILLIAMSON COUNTY ROAD AND BRIDGE PROJECT:
Williamson County Server Building

This Supplemental Work Authorization No. 1 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Architectural/Engineering Services, being dated **August 28, 2018** ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and **KGA Architecture** (the "Firm").

WHEREAS, the County and the Firm executed Work Authorization No. 1 dated effective **August 28, 2018** (the "Work Authorization");

WHEREAS, pursuant to the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Firm agree that the Work Authorization shall be amended, changed and modified as follows:

- I. The above referenced Work Authorization termination date shall be modified to **September 30, 2020**. The Services to be Provided by the Firm shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C" (must be attached).
- II. The maximum amount payable for services under the Work Authorization is hereby increased from **\$20,000.00** to **\$215,000.00**. The revised Work Schedule is attached hereto as Attachment "C" (must be attached).

County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Supplemental Work Authorization. Firm understands and agrees that County's payment of amounts under this Supplemental 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 the Supplemental Work Authorization. It is further understood and agreed by Firm that County shall have the right to terminate this Supplemental Work Authorization 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 Firm.

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

This Supplemental Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

IN WITNESS WHEREOF, the County and the Firm have executed this Supplemental Work Authorization, in duplicate, to be effective as of the date of the last party's execution below.

FIRM:

By: 
Signature

Richard Romito
Printed Name

Partner, COO/CFO
Title

2/19/2019
Date

COUNTY:

By: _____
Signature

Bill Gravell, Jr.
Printed Name

Williamson County Judge
Title

Date

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

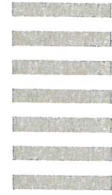
Attachment B - Services to be Provided by Firm

Attachment C - Work Schedule

Attachment D - Fee Schedule

Attachment C - Work Schedule

Please see next pages.



December 20, 2018

Williamson County
710 Main Street, Suite 301
Georgetown, TX 78626

Attention: Williamson County

Regarding: Williamson County IT Server Building – Additional Services Request #1
KGA Project No.: 18465.01

To Whom It May Concern:

We are respectfully submitting an Additional Service Request (ASR) for the above referenced Project. The scope of services for this ASR is as follows:

- Survey and inspection of existing premises;
- Site work will require removal and relocation of parking spots;
- Site work will require removal and replacement of areas of sidewalk;
- Addition of new curbs and sidewalk;
- Soils report required for assessment of structural stability (by Owner);
- Design of a building to house a server system to the specifications set out by Williamson County I.T. Department. Building size is estimated to be 1,100 sq. ft., one-story building with an accompanying side generator yard to be approximately 700 sq. ft. in size;
- The server building construction is to be concrete slab on grade foundation. Exterior walls will be constructed of Concrete Masonry Unit construction type with an exterior finish of E.I.F.S. (Exterior Insulation & Finish System);
- Roofing system to be single ply membrane roofing over rigid insulation over steel roof deck;
- The building and generator are to house the equipment specified by the Williamson County I.T. Department as itemized in the list they provided and shown in the Appendix;
- Flooring system will be a raised floor system capable of housing wiring and duct work typical of a data center/server room;
- Power supply capable of powering sixteen extended server racks of type and power as specified by Williamson County I.T. Department;
- Cooling and heating to be designed capable of requirements to keep server equipment at optimum operating temperatures, including the installation of specialized CRAC cooling systems;
- Fire suppression system with performance requirements equal or greater than that of FM 200 waterless system;
- Fire and Security Alarm;

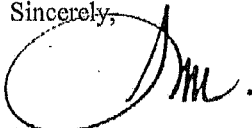
- Bollards to be placed strategically around building to prevent automobile accidents from hindering server performance;
- Temperature sensors consistent with data center standards;
- All equipment necessary to connect server system with Williamson County complex, including but not limited to cable ladder racks, server racks, dedicated building UPS, grounding cable and bars for all equipment (best practice standard), lightning protection, and fiber optic cabling (see list from County in Appendix);
- Office workroom with counter space, approximately 100 sq. ft. in size;
- Security as required by the County (see list from County in Appendix);
- IT Connections as required by the County (see list from County in Appendix).

Compensation for the Additional Services described above shall be provided on a Not to Exceed T&M cost of One Hundred Ninety-Five Thousand Dollars (\$195,000.00).

We will bill this on our continuing monthly invoice as an Additional Service and all other portions of our original contract for Architectural / Engineering Services for this project remain unchanged.

Should you have any questions or comments, please do not hesitate to contact our office.

Sincerely,


Luma Jaffar, AIA, RIBA, LEED BD+C
Partner

APPROVED:

By: _____

Date: _____

Attachment: List from County in Appendix

Justice Center Data Center Requirements

The intent is to create a primary server facility for Williamson County that will initially contain capacity for 8 full racks of servers, storage, and networking equipment with room to expand to 16 racks without additional building construction. The facility will have a variety of connections to external sources, including the County fiber-optic network, telco lines, radio and other links.

The facility needs to be hardened against water, wind, electronic, and man-made hazards to the extent possible.

1. Physical Space

- a. Raised flooring
- b. Cable ladder racks
- c. 8 initial racks with capacity for 16 total extended server racks (1991mm height, 600mm width, 1200mm depth).
 - i. Example model: <https://www.apc.com/shop/in/en/products/NetShelter-SX-42U-600mm-Wide-x-1200mm-Deep-Enclosure-with-Sides-Black/P-AR3300>
 - ii. Clearance distances: 4' in front, 3' in back of each rack
- d. Hardened to withstand an F3 tornado
- e. Office/workroom
 - i. 100 sq. ft
 - ii. Counter space for working on servers with convenience outlets
 - iii. Outside entrance (4' door)
 - iv. Door to server room (4' door)
- f. Entrance direct to server area with 4' minimum width door and ramp (if needed)

2. Electrical & cooling

- a. 2 separate circuits to each rack with in-floor L6-30 outlets
- b. In-rack or dedicated building UPS sized to hold 75% load for 5 minutes
- c. In-Floor cooling with hot and cold rows
- d. Minimum of two CRAC units (with capacity to sustain a failure) with option to add additional units in the future (for the additional future 8 racks)
- e. Generator on-site fuel – 6+ hours of runtime at 75% capacity

3. Protection

- a. FM 200 or other waterless fire suppression
- b. Fire and Security alarm
- c. Temperature sensors (2)
- d. Water-leak detection
- e. Lightning protection for any external cabling
- f. Grounding cable and bars for all equipment (best practice standard)

4. Security

- a. HID iClass badge access into office and into server room doors with optional number pad for temporary admittance (Stanley BEST system)
 - i. Manual backup locks if power system fails doors to unlocked

- b. Video surveillance on entrances
 - i. Night vision and color video (Axis cameras with motion detection and licenses for the Genetec system)
- c. Video surveillance inside the server room
 - i. Thermal & color video (Axis cameras with motion detection and licenses for the Genetec system)
- d. Exterior lighting on entrances
- e. Bollards or other protection against vehicle accidents

5. IT Connections

- a. Entrance Panel with 4" Diameter Holes for:
 - i. Coax connection for GPS
 - ii. Cabling to external antenna for cellular data
 - iii. POE CAT6 cabling to external antenna
 - iv. Fiber-optic cabling (up to 4 cables) – 2 if underground cabling for County fiber
- b. Possible tower or pole (depending on location of building):
 - i. for sky view and/or connection to other County facilities
 - ii. Antenna for radio connection to other County facility/tower
- c. 4 x 4" underground conduits for:
 - i. County fiber optic cable
 - ii. Telco entrance for future telco/ISP connections (3)
- d. Connections and terminations for County fiber from existing location to the data center