

WORK AUTHORIZATION NO. 3

PROJECT: Engineering Design Services for the Central Maintenance Facility

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated May 31, 2022, and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and K.C. Engineering, Inc. (the "Engineer").

Part 1. The Engineer will provide the following Engineering 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 \$46,495.00.

Part 3. Payment to the Engineer 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 March 31, 2025. The Engineering 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. Engineer 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 Engineer 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 Engineer.

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

EXECUTED this ____ day of _____, 20__.

ENGINEER:

K.C. Engineering, Inc.

By:

Greg Haley, P.E.
Signature

Greg Haley, P.E.

Printed Name

President

Title

COUNTY:

Williamson County, Texas

By: _____

Signature

Printed Name

Printed Name

Title

Title

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

Attachment A - Services to be Provided by County
Services to be Provided by County

Williamson County Road & Bridge Division personnel will provide:

- Project direction, review and oversight
- Topographic and R.O.W. Surveys.
- Geotechnical Investigations; data and reports.
- ROW Documents and Drainage Reports
- Construction, administration, and management.

Attachment B – Services to be Provided by Engineer

Services to be Provided by Engineer

Project Locations

1. Name of Site – Central Maintenance Facility

Task 1: Project Management

Attend Progress Review Meetings with County Road and Bridge Department. Prepare monthly progress reports and invoices. Maintain project schedule and perform QA/QC.

Task 2: Topographic Surveys and R.O.W. Surveys

To be provided by the County

Task 3: Preliminary Engineering

Conduct Site Visit and Field Reconnaissance to document existing conditions. Data collection including available as-builts. Develop conceptual layout showing existing site conditions, drainage patterns, and proposed work. Develop preliminary drainage analysis including delineation of drainage areas, calculation of peak stormwater runoff rates for 2-yr, 10-yr, 25-yr, and 100-yr.

Task 4: Geotechnical Investigations

To be provided by the County

Task 5: Environmental Studies

N/A

Task 6: Utility Coordination

To be provided by the County

Task 7: FEMA Coordination

N/A

Task 8: Final Engineering

Prepare final detailed design and PS&E for proposed improvements. Calculate existing and proposed rainfall runoff and determine the size and configuration of drainage structures.

Plan Sheets:

- Title Sheet (and Index of Sheets)
- Estimate of Quantities Summaries Sheet
- Project Layout Sheet
- Existing Conditions and Demo Plan Sheet
- Drainage Area Map
- H & H Summary Sheet
- Storm Sewer Plan & Profile Sheet

- Erosion Control Plan
- Miscellaneous Drainage Details
- Miscellaneous Site Details
- Standards

Specifications
Cost Estimate
General Notes

Task 9: Bidding Phase Services
N/A

Task 10: Construction Phase Services
Review shop drawings and respond to contractor RFIs. Prepare electronic as-built final drawings for the County based on construction red-lines provided by the County.

Deliverables:

50% Submittal:

- PDFs of 11" x 17" Plan Sheets
- Specifications
- Estimate of Construction Cost
- General Notes
- Engineer's Internal QA/QC marked up set

90% Submittal

- PDFs of 11" x 17" Plan Sheets
- Specifications
- Estimate of Construction Cost
- General Notes
- Engineer's Internal QA/QC marked up set

100% Submittal

- PDFs of 11" x 17" Plan Sheets
- Specifications
- Estimate of Construction Cost
- General Notes
- Engineer's Internal QA/QC marked up set
- Electronic copy of submittal documents in PDF

ATTACHMENT C
WORK SCHEDULE
WORK AUTHORIZATION NO. 3

Task No.	Task Name	Duration	Time	Start	Finish
1	WA #3 - Notice to Proceed	0	Days	2/1/2024	2/1/2024
2	Survey (by others)	0	Days	2/1/2024	2/1/2024
3	Design	25	Days	2/1/2024	2/26/2024
4	50% PS&E	15	Days	2/26/2024	3/12/2024
5	QA/QC	2	Days	3/12/2024	3/14/2024
6	Submit 50% PS&E	0	Days	3/14/2024	3/14/2024
7	County Review	10	Days	3/14/2024	3/24/2024
8	90% PS&E	15	Days	3/24/2024	4/8/2024
9	QA/QC	3	Days	4/8/2024	4/11/2024
10	Submit 90% PS&E	0	Days	4/11/2024	4/11/2024
11	County Review	10	Days	4/11/2024	4/21/2024
12	Final PS&E	5	Days	4/21/2024	4/26/2024
13	Address 90% comments	2	Days	4/26/2024	4/28/2024
14	Final Quantities	2	Days	4/28/2024	4/30/2024
15	Final Estimate	2	Days	4/30/2024	5/2/2024
16	Assemble Final PS&E	2	Days	5/2/2024	5/4/2024
17	Submit Final PS&E	0	Days	5/4/2024	5/4/2024
18	County Review	5	Days	7/21/2021	5/9/2024
19	Submit Signed and Sealed PS&E	2	Days	7/21/2021	5/11/2024
20	Bid Advertisement	0	Days	5/11/2024	5/11/2024
21	Letting	0	Days	5/11/2024	5/11/2024
22	Award and Bonds	0	Days	5/11/2024	5/11/2024
23	Construction	0	Days	5/11/2024	5/11/2024
24	Complete Project	0	Days	5/11/2024	5/11/2024

ATTACHMENT D - FEE SCHEDULE
WORK AUTHORIZATION NO. 3
CENTRAL MAINTENANCE FACILITY (CMF) SITE PLAN

K.C. ENGINEERING, INC.											
TASK NO.	TASK DESCRIPTION	PRINCIPAL ENGINEER	SENIOR PROJECT MANAGER	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	ENGINEER-IN-TRAINING	ENGINEERING ASSISTANT	CAD TECHNICIAN	CLERICAL	TOTAL
	Labor Rates	250.00	215.00	200.00	195.00	165.00	125.00	110.00	95.00	80.00	
1	PS&E Development										
1.1	Site Design										
1.1.1	Establish Horizontal Alignment										\$ -
1.1.2	Establish Vertical Alignment										\$ -
1.1.3	Site Visits				1	1					\$ 360.00
1.1.4	Superelevation Table										\$ -
1.1.5	Roadway Cross Sections										\$ -
1.1.6	Earthwork Calculations										\$ -
1.1.7	Roadway Plan Profile Sheets					4	12				\$ 2,160.00
1.1.8	Driveway Profiles / Details / Summaries										\$ -
1.1.9	Side Road Profiles / Details / Summaries										\$ -
1.1.10	Miscellaneous Roadway Details										\$ -
1.1.11	Alignment Data										\$ -
1.1.12	Sequence of Construction										\$ -
1.1.13	Intersection Layouts										\$ -
1.1.14	Project/Site Layout					16	24				\$ 5,640.00
1.1.15	Title Sheet										\$ -
1.1.16	Process Survey Data					4	8				\$ 1,660.00
1.1.17	Existing Conditions and Removal Plan					2	4				\$ 830.00
1.1.18	Index of Sheets										\$ -
1.1.19	Summary of Quantities				2	4	8				\$ 2,050.00
1.1.20	Construction Estimate										\$ -
1.1.21	Assemble Applicable Standards					1	2				\$ 415.00
	Task 2.1 Total	0	0	0	3	32	58	0	0	0	\$ 13,115.00
1.2	Hydrology & Hydraulics										
1.2.1	Drainage Area Mapping					6					\$ 990.00
1.2.2	Site Hydrology					6	4				\$ 1,490.00
1.2.3	Site Hydraulics					12	4				\$ 2,480.00
1.2.4	Site Inlet Sizing					6	4				\$ 1,490.00
1.2.5	Site Trunkline Sizing & Layout					12	4				\$ 2,480.00
1.2.6	Site H&H Summary Sheet & Tables					2	4				\$ 830.00
1.2.7	Existing and Proposed Drainage Patterns					4	8				\$ 1,660.00
1.2.8	Storm Sewer Plan and Profile Sheets					4	8				\$ 1,660.00
1.2.9	Driveway H&H Summary Sheet & Tables										\$ -
1.2.10	Culvert Layouts & Culvert Details										\$ -
1.2.11	Miscellaneous Drainage Details					2	2				\$ 580.00
1.2.12	Summary of Drainage Quantities					2	2				\$ 580.00
1.2.13	Assemble Applicable Standards					1	2				\$ 415.00
	Task 2.2 Total	0	0	0	0	57	42	0	0	0	\$ 14,655.00
1.3	Signing & Pavement Marking & Illumination										
1.3.1	Sign Layouts										\$ -
1.3.2	Pavement Marking Layouts					4	6				\$ 1,410.00
1.3.3	Pavement Marking Details					2	5				\$ 955.00
1.3.4	Summary of Pavement Markings					2	1				\$ 455.00
1.3.5	Small Sign Summary										\$ -
1.3.6	Illumination Layouts (Wilco Provided)					2	2				\$ 580.00
1.3.7	Assemble Applicable Standards					1	2				\$ 415.00
	Task 2.3 Total	0	0	0	0	11	16	0	0	0	\$ 3,815.00
1.4	Traffic Control Plans / SW3P										
1.4.1	Traffic Control Layouts										\$ -
1.4.2	Traffic Control Typical Sections										\$ -
1.4.3	Intersection Design										\$ -
1.4.4	Driveway Design										\$ -
1.4.5	Storm Water Pollution Prevention Plan (SW3P)					2	6				\$ 1,080.00

ATTACHMENT D - FEE SCHEDULE
WORK AUTHORIZATION NO. 3
CENTRAL MAINTENANCE FACILITY (CMF) SITE PLAN

K.C. ENGINEERING, INC.											
TASK NO.	TASK DESCRIPTION	PRINCIPAL ENGINEER	SENIOR PROJECT MANAGER	PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	ENGINEER-IN-TRAINING	ENGINEERING ASSISTANT	CAD TECHNICIAN	CLERICAL	TOTAL
	Labor Rates	250.00	215.00	200.00	195.00	165.00	125.00	110.00	95.00	80.00	
1.4.6	Prepare Env. Permits, Issues & Commitments										\$ -
1.4.7	Erosion Control Plan					4	6				\$ 1,410.00
1.4.8	Miscellaneous TCP and Erosion Details					1	2				\$ 415.00
1.4.9	Assemble Applicable Standards					1	2				\$ 415.00
	Task 2.4 Total	0	0	0	0	8	16	0	0	0	\$ 3,320.00
1.5	PS&E Documents										
1.5.1	Estimate of Quantities Summary										\$ -
1.5.2	Basis of Estimate										\$ -
1.5.3	Construction Cost Estimate										\$ -
1.5.4	Construction Duration Estimate										\$ -
1.5.5	General Notes & Specifications										\$ -
1.5.6	Supporting Contract Documentation										\$ -
	Task 2.5 Total	0	0	0	0	0	0	0	0	0	\$ -
1.6	Project Management										
1.6.1	Project Administration				4						\$ 780.00
1.6.2	Maintain Project Records				2					4	\$ 710.00
1.6.3	Periodic Progress Meetings (County)				2	2					\$ 720.00
1.6.4	Periodic Progress Meetings (Subconsultants)										\$ -
1.6.5	QA/QC			4	8	16					\$ 5,000.00
1.6.6	Invoice Preparation				4					2	\$ 940.00
1.6.7	Progress Reports				4					2	\$ 940.00
1.6.8	Plans Preparation for Submittal			2	4	8					\$ 2,500.00
	Task 2.6 Total	0	0	6	28	26	0	0	0	8	\$ 11,590.00
	Task 1 - PS&E Total	0	0	6	31	134	132	0	0	8	\$ 46,495.00
2	Project Bidding										
2.1	Project Bidding										
2.1.1	Prepare Addenda										\$ -
2.1.2	Contractor Questions (RFI)										\$ -
2.1.3	Attend Pre-Bid Conference										\$ -
2.1.4	Tabulate Bids										\$ -
2.1.5	Prepare Recommendation Letter										\$ -
	Task 2 Project Bidding Total	0	0	0	0	0	0	0	0	0	\$ -
3	Construction Support										
3.1	Construction Support (If Required)										
3.1.1	Preconstruction Meeting										\$ -
3.1.2	Review Shop Drawings										\$ -
3.1.3	General Construction Support										\$ -
3.1.4	Prepare Change Orders as Necessary										\$ -
	Task 3 Construction Support Total	0	0	0	0	0	0			0	\$ -
	Total Tasks 1, 2, & 3	0	0	6	31	134	132	0	0	8	\$ 46,495.00