

WORK AUTHORIZATION NO 7

PROJECT: CR 255 City of Georgetown Water Line Relocations

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated **July 16, 2019** and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and **Cobb Fendley & Associates, 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 **\$365,722.00.**

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 **December 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 _____.

ENGINEER:

Cobb Fendley & Associates, Inc.

By: 

Signature

Sandra G. Khoury, P.E.

Printed Name

Executive Vice President

Title

COUNTY:

Williamson County, Texas

By: _____

Signature

Bill Gravell, Jr.

Printed Name

County Judge

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

Williamson County Department of Infrastructure designated staff will provide project direction, review and oversight for each on-call utility coordination and relocation work assignments

ATTACHMENT B

SERVICES TO BE PROVIDED BY ENGINEER

UTILITY DESIGN.

The **Engineer** will coordinate and develop PS&E for utilities to be included in the construction contract for the County upon written request by the Utility Owner and/or the County. All joint bid utility plan requests are to be approved by the County or Designated Representative prior to commencing work.

The **Engineer** will provide design, bid, and construction phase services for the installation of approximately 6,800 linear feet of 2", 3", 8", 12", and 16" main, 6" fire hydrant leads, and service pipe, 600 linear feet of 4", 18", 24", and 30" steel encasement installed via open trench and jack/bore, required appurtenances, and connections to the existing 2", 3", 12", and 15" water lines associated with the construction of the CR 255 improvement project in Williamson County for the City of Georgetown.

I. Design Phase

The **Engineer** will prepare plans and compile specifications for the construction of the water utility relocations identified on provided utility conflict strip map. Additional services proposal will be prepared to perform the necessary relocation design work for any additional relocations not identified as applicable. Design services include traffic controls and erosion controls for the water utility relocations. The design phase assumes a 30% design workshop meeting, followed by 90% and 100% submittals to City of Georgetown.

A. Data Development.

1. Gather and analyze data. Obtain plans and electronic files for roadway and topographical information. This scope assumes that survey information for water line relocations located within the ROW will be provided by the roadway engineer and that it will provide data adequate to design the relocations within the ROW. This scope assumes that additional survey will be necessary to prepare relocations for water lines that are currently in easement and will be relocated into a new easement, and that this survey will be performed and provided by others and provided to the **Engineer** for use in relocation design outside existing survey limits.
2. Prepare preliminary adjustment and relocation plans for relocations associated with the roadway design.
3. Coordinate with the City on preliminary layouts and relocations. Includes one (1) design workshop meeting with the City.

B. The **Engineer** will prepare design plans at 30%, 90% and 100% completion. The 30% plans will be discussed at a design workshop meeting with the City of Georgetown as mentioned above. 90%, and 100% plans will be officially submitted to City of Georgetown for review. The **Engineer** anticipates the following sheets to be included in our design set.

1. Cover sheet. (1 Sheet)
2. General Notes. Assemble a set of general notes using City of Georgetown and TCEQ standards. (2 Sheets)
3. Quantity Sheet (2 Sheets). Prepare a summary of quantities sheet. A blank sheet will be included in the 30% plans. Full quantities will be included in the 90% and 100% submittals.
4. Overall Layout Sheets (1 Sheet). Prepare an overall reference sheet to scale.
5. Erosion and Sedimentation Control Sheets (9 sheets). Prepare 11"x17" erosion and sedimentation control plan sheets at 90% and 100% submittals. Assumes 9 sheets.
6. Plan and Profile (17 Sheets). Prepare plan sheets at 30% submittal and plan and profile sheets at 90% and 100% submittals for the proposed water line relocations at a scale of 1" = 40' on 11"x17" plan sheets, with a true half size. Assumes 17 sheets. This scope assumes fire hydrant plan and profile sheets will not be required.
7. Detail Sheets (5 sheets). Prepare detail sheets showing standard construction details and special, project-specific details. Assumes 5 sheets.
8. Restrained Joint Calculations (1 Sheet). Perform restrained joint calculations and include a table of required lengths calculated in the plans. Assumes 1 sheet.

Note: This scope assumes that environmental clearance required for new easements, if applicable, will be handled by others. This scope assumes that additional survey needed for relocations outside of the right-of-way will be coordinated with and performed by others. This scope assumes that easement investigation and acquisition will be handled by others.

- C. The **Engineer** will assemble standard technical specifications to be included in the roadway contract documents. A list of specifications relevant to the project will be provided with the 30% submittal to the City of Georgetown. A full set of utility specifications required will be provided with the 90% and 100% submittals for the water line relocations. City of Georgetown and City of Austin standard technical specifications will be used for this project. This scope assumes that front end/contract documents will be prepared by others.
- D. The **Engineer** will perform a quantity take off and prepare a bid form. A quantity take-off will be performed at the 90%, and 100% submittals. Bid items to be included in the bid form will be prepared by the roadway and drainage consultant.
- E. The **Engineer** will prepare an opinion of probable construction cost for the 30% (+/- 25%), 90% (+/- 10%), and 100% submittals.

- F. The **Engineer** will perform internal quality control reviews on the plans and specifications prior to each submittal to City of Georgetown.
- G. The **Engineer** will prepare 30% design plans to present to the City of Georgetown in a design workshop meeting. Discussions from this meeting will be incorporated into the official 90% submittal.
- H. The **Engineer** will assemble plans and specifications and submit them to City of Georgetown for review. This scope assumes there will be a 90% and 100% Final Bid Set submittal. The **Engineer** will electronically provide 11"x17" size plans and specifications for each submittal.
- I. The **Engineer** will review comments provided by the City of Georgetown and prepare a written response to the comments for inclusion with the subsequent submittal.
- J. The **Engineer** will participate in up to three (3) coordination and review meetings on the three (3) submittals to City of Georgetown for their review and approval. If the correspondence, meetings, and revisions required by the City exceeds the number of meetings listed in this scope of services, then additional services will be required.
- K. The **Engineer** will coordinate with City of Georgetown to obtain required approvals for construction. This scope assumes that permits will be obtained by others.
- L. The **Engineer** will provide project management of proposed water line relocation design for an assume nine (9) month design schedule

II. Bid Phase

The **Engineer** will provide limited assistance in the bidding of the project. This scope assumes that the utility relocation bid items will be included in the roadway project bid and The **Engineer** will provide assistance as related to water relocations only. This scope also assumes that the Owner will engage a bidding assistance center for the distribution and management of plans during bid phase. Distribution of plans and maintenance of a plan holders list is not included in this scope. Below is a detailed scope of services for bid phase:

- A. Attend pre-bid conference. Meeting agenda and minutes prepared by others.
- B. Respond to contractor's questions during bidding process.
- C. Prepare addenda (assume 1) to address contractor questions. Distribution will be handled by others.

The following items are not included in bid phase services:

- A. Review bid tabs.
- B. Review contractor recommendation.

III. Construction Phase

The **Engineer** will provide limited construction administration and observation assistance to the project and City of Georgetown. This scope does not include inspection services. This scope assumes construction duration of nine (9) months. All scopes of services in this scope are related to water and wastewater utility relocations only. Below is a detailed scope of services for construction phase:

- A. Attend preconstruction meeting.
- B. Attend nine (9) meetings when utility adjustments are in process.
- C. Attend periodic site visits. Assume four (4) site visits (not coincident with progress meetings). If additional visits are required, then this will result in additional services.
- D. The **Engineer** will review each submittal up to two (2) times. If the Contractor requires a third submittal, it will be reviewed as an additional service and at the Contractor's expense, as will be written in the contract documents. This scope assumes 25 submittals.
- E. The **Engineer** will coordinate with City of Georgetown and the Contractor on RFIs and respond with clarifications as needed. This scope assumes ten (10) RFIs.
- F. The **Engineer** will assist in negotiation and preparation of change order documents, should they be necessary. This scope assumes two (2) change orders.
- G. The **Engineer** will assist with closing out the contract, reviewing final pay application and affidavits, and preparing a Concurrence Letter.
- H. The **Engineer** will prepare a set of record drawings based on Contractor's redlines in the field. Record drawings will be provided to the City electronically.
- I. The **Engineer** will provide project management during the assumed nine (9) month construction schedule.

The following items are not included in construction phase services:

- A. Review of pay estimates.

- B. This Construction Phase Services assumes that one project inspector amongst the stakeholders will be assigned and there will not be coordination amongst the various stakeholders during construction.
- C. Final Walk Through and Punch List.

Williamson County Road & Bridge
CR 255
City of Georgetown Water Relocations
Project Schedule
January 12, 2024

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Qtr 4, 2023 OctNovDec	Qtr 1, 2024 JanFebMar	Qtr 2, 2024 AprMayJun	Qtr 3, 2024 JulAugSep	Qtr 4, 2024 OctNovDec	Qtr 1, 2025 JanFebMar	Qtr 2, 2025 AprMayJun	Qtr 3, 2025 JulAugSep
1																
2			CR 255 Water Adjustments/Relocations	109 days	Tue 1/2/24	Fri 5/31/24										
3			NTP	1 day	Tue 1/2/24	Tue 1/2/24										
4			30% Design	34 days	Wed 1/3/24	Mon 2/19/24										
5			30% Design	18 days	Wed 1/3/24	Fri 1/26/24	3									
6			QA/QC	5 days	Mon 1/29/24	Fri 2/2/24	5									
7			Address Comments, + EOPC and Specs	5 days	Mon 2/5/24	Fri 2/9/24	6									
8			Workshop Meeting	1 day	Mon 2/19/24	Mon 2/19/24	7FS+5 days									
9			60% Design	37 days	Tue 2/20/24	Wed 4/10/24										
10			60% Design	20 days	Tue 2/20/24	Mon 3/18/24	8									
11			QA/QC	5 days	Tue 3/19/24	Mon 3/25/24	10									
12			Address Comments, + EOPC and Specs	5 days	Tue 3/26/24	Mon 4/1/24	11									
13			Submittal to City	1 day	Tue 4/2/24	Tue 4/2/24	12									
14			Review Meeting with City	1 day	Wed 4/10/24	Wed 4/10/24	13FS+5 days									
15			100% Design	37 days	Thu 4/11/24	Fri 5/31/24										
16			100% Design	15 days	Thu 4/11/24	Wed 5/1/24	14									
17			QA/QC	5 days	Thu 5/2/24	Wed 5/8/24	16									
18			Address Comments, + EOPC and Specs	5 days	Thu 5/9/24	Wed 5/15/24	17									
19			Submittal to City	1 day	Thu 5/16/24	Thu 5/16/24	18									
20			Review Meeting with City	1 day	Fri 5/24/24	Fri 5/24/24	19FS+5 days									
21			City Approval	1 wk	Mon 5/27/24	Fri 5/31/24	20									
22			Bid Phase	32 days	Mon 6/3/24	Tue 7/16/24										
23			Advertisement/Bidding	5 wks	Mon 6/3/24	Fri 7/5/24	21									
24			Bid Opening	1 day	Mon 7/8/24	Mon 7/8/24	23									
25			Contractor Selection	1 wk	Tue 7/9/24	Mon 7/15/24	24									
26			Bid Award	1 day	Tue 7/16/24	Tue 7/16/24	25									
27			Construction Phase	281 days	Wed 7/24/24	Wed 8/20/25										
28			Pre-Construction Meeting	1 day	Wed 7/24/24	Wed 7/24/24	26FS+5 days									
29			Substantial Construction	12 mons	Thu 7/25/24	Wed 6/25/25	28									
30			Final Construction	14 mons	Thu 7/25/24	Wed 8/20/25	28									

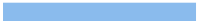
Project: CR 255 Water Relocatio
Date: Sun 1/14/24

Task

Split

Milestone

Summary









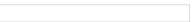
Project Summary

Inactive Task

Inactive Milestone

Inactive Summary









Manual Task

Duration-only

Manual Summary Rollup

Manual Summary









Start-only

Finish-only

External Tasks

External Milestone









Deadline

Progress

Manual Progress







ATTACHMENT D FEE SCHEDULE

	Hours							Expenses				
	\$235.00 per hour Senior Project Manager	\$195.00 per hour Senior Engineer	\$170.00 per hour Proj Engr III	\$150.00 per hour Proj Engr II	\$145.00 per hour Senior Technician	\$105.00 per hour Administrative	\$0.655 per mile Mileage	\$15.000 per each Delivery	\$0.150 per sheet Copies			
Task										Total Hours	Total Budget	
Design Phase												
A. Data Development												
A1. Gather and analyze data.		24		24	30		144			78	\$12,630.00	
A3. Prepare preliminary adjustment and relocation plans for relocations associated with interim roadway design.		12		48	24					84	\$13,020.00	
A4. Coordination meeting with City	2	2		2	2	2				10	\$1,660.00	
B. Plans											\$0.00	
B1. Cover (1 sheet)		3		3	3					9	\$1,470.00	
B2. General Notes (2 sheets)	3			3	3					9	\$1,590.00	
B3. Summary of Quantities (2 sheets)	2	8		10							\$3,530.00	
B4. Overall Layout (1 sheet)	3			5	8					16	\$2,615.00	
B6. Erosion and Sedimentation Controls (9 Sheets)	5	27		72	54					158	\$25,070.00	
B7. Plan and Profile (17 Sheets)	22	107		383	255		288			767	\$120,460.00	
B8. Detail Sheets (5 sheets)		8		5						13	\$2,310.00	
B9. Restrained Joint Calculations (1 Sheet)		10								10	\$1,950.00	
C. Specifications	4	8		16		16				44	\$6,580.00	
D. Quantity Take-Off/Bid Form	3	12		24						39	\$6,645.00	
E. Cost Estimate	3	12		24						39	\$6,645.00	
F. QA/QC	84	28								112	\$25,200.00	
G. Design Workshop Meeting	4	4		8						16	\$2,920.00	
H. Submittal Packages (2)		12		16		12				40	\$6,000.00	
I. Respond to Comments	4	8		12						24	\$4,300.00	
J. Coordination/Review Meetings (2)		6		6		4				16	\$2,490.00	
K. Approvals				6		4				10	\$1,320.00	
L. Project Management.	5	14				9				28	\$4,850.00	
Hour Sub Total	144	305	0	667	379	47	432	0	0	1542		
Subtotal Labor Costs	\$33,840.00	\$59,475.00	\$0.00	\$100,050.00	\$54,955.00	\$4,935.00	\$282.96	\$0.00	\$0.00		\$253,255.00	
Subtotal Expense Costs											\$298.00	
Bid Phase												
A. Attend pre-bid conference		2		6			144			8	\$1,290.00	
B. Respond to contractors' questions	2	4		8						14	\$2,450.00	
C. Prepare addenda (1)	2	6		10		4				22	\$3,560.00	
Hour Sub Total	4	12	0	24	0	4	144	0	0	44		
Subtotal Labor Costs	\$940.00	\$2,340.00	\$0.00	\$3,600.00	\$0.00	\$420.00	\$94.32	\$0.00	\$0.00		\$7,300.00	
Subtotal Expense Costs											\$100.00	
Construction Phase												
A. Attend preconstruction meeting		2		6			144			8	\$1,290.00	
B. Attend progress meetings (9)		18		54			1296			72	\$11,610.00	
C. Attend site visits (4)		8		24			288			32	\$5,160.00	
D. Review submittals (25)	7	25		50		25				107	\$16,645.00	
E. Respond to RFIs (10)	3	20		60	30					113	\$17,955.00	
F. Change orders (2)	4	18		24	24					70	\$11,530.00	
G. Project close-out		6		12						18	\$2,970.00	
H. Record drawings	4	47		74	56					181	\$29,325.00	
I. Project Management.	9	18				14				41	\$7,095.00	
Hour Sub Total	27	162	0	304	110	39	1728	0	0	642		
Subtotal Labor Costs	\$6,345.00	\$31,590.00	\$0.00	\$45,600.00	\$15,950.00	\$4,095.00	\$1,131.84	\$0.00	\$0.00	\$0.00	\$103,580.00	
Subtotal Expense Costs												

Task	Labor	Expense	Total Fee
Design	\$253,255.00	\$298.00	\$253,553.00
Bid	\$7,300.00	\$100.00	\$7,400.00
Construction	\$103,580.00	\$1,189.00	\$104,769.00
Total	\$364,135.00	\$1,587.00	\$365,722.00