



- GEOTECHNICAL ENGINEERING
- ENVIRONMENTAL CONSULTING
- CONSTRUCTION MATERIALS ENGINEERING
- CONSTRUCTION MATERIALS TESTING

March 8, 2025

Williamson County  
c/o HNTB  
Attn: Steven Shull  
Attn: Marie Walters  
Attn: Julissa Vasquez


**Re: 1Construction Phase Observation and Testing Services  
Williamson County Project No. 25IFB9 - Work Authorization # 1  
Alliance Engineering Group, Inc. Proposal No. P24-0803C (Revised)**

Dear Mr. Shull:

The **Alliance Engineering Group, Inc.** submits this revised proposal for the construction phase Quality Assurance (QA) observation and testing services on the above-referenced project. The proposal is based on a review of the project plans and specifications and our understanding of our role on the project. The estimated fees are based on the assumptions presented in the attached document and the unit rates as shown on the approved / Revised Exhibit D of the PSA, dated January 28, 2025. Please contact the undersigned should you have any questions regarding estimated quantities and/or fees contained herein.

Respectfully submitted,

**ALLIANCE ENGINEERING GROUP, Inc.**  
TBPE Firm No. 11290



Wayne A. Eddins  
Managing Partner

WAE/ck

Dist: HNTB

Cc: File

Attach: Proposal No. P25-0803C (Revised)

z:\data\documents\Projects\CMT\2024\P240803\proposalRev.doc

## **WORK AUTHORIZATION NO. 1**

### **PROJECT: 251EB9:CR 255. Precinct 3**

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated **March 19, 2024** and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and **Alliance Engineering Group, 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 **\$172,890.00.**

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, 2027.** 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.

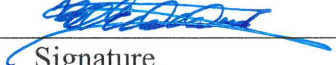
Part 7. This Work Authorization is hereby accepted and acknowledged below.

*Continued next page*

EXECUTED this \_\_\_\_\_.

ENGINEER:

Alliance Engineering Group, Inc.

By:   
Signature

Wayne A. Eddins  
Printed Name

President  
Title

COUNTY:

Williamson County, Texas

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
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 THE COUNTY**  
**FOR WILCO Project No. 251FB9 - CR 255, Pct. No. 3**

In general, Williamson County and its representatives to their best efforts will render services as follows:

1. Name, business address and phone number of County's project manager and any other points of contact, to be identified upon Notice of Proceed.
2. Provide construction manual and available appropriate County data on file, plans and specifications that are deemed pertinent to the completion of the work required by the scope of services (including project plans, quantity sheets, and bid form).
3. Provide a weekly material testing schedule and confirm/cancel requested services at least 24-hour in advance.
4. Assist with coordination with the contractor to provide sampling accommodations and appropriate sample storage areas.
5. Assist with Coordination between the Engineer and the County's other subconsultants.

## **ATTACHMENT B**

### **Work Authorization #1**

#### **SERVICES TO BE PROVIDED BY THE ENGINEER**

Perform sampling and testing of components and materials in accordance with the standard specifications, and all other standard and special specifications and special provisions applicable in this agreement. Meet the minimum sampling frequencies as described in Williamson County Quality Control/Quality Assurance Program included in Appendix A of the Project Construction Manual (PCM). The Contractor is responsible for Quality Control testing of all materials, except for Hot Mix Asphalt (HMA). Williamson County (Owner) is responsible for Quality Control testing of HMA and Quality Assurance testing of all other materials. The frequency and location will be according to the "Project Test" frequency as shown in Appendix B "TxDOT Guide Schedule for Sampling and Testing" of the PCM. For Quality Assurance testing, assume a frequency of 10% of the Contractor's QC testing. The estimated number of samples and tests are to be based on the project quantities in the executed construction contract.

- Ensure the testing is complete and the test results are distributed to the appropriate parties within 24 hours.
- Create and maintain organized files for each type of materials tested (soils, flexible base, HMA, Concrete, etc.).
- The Engineer shall prepare a project specific Quality Assurance and Quality Control Plan (QA/QC) and submit within 30 days of the Notice to Proceed.
- The Engineer shall provide certified personnel, outlined in their QA/QC plan that are knowledgeable of all materials testing procedures. All personnel performing acceptance tests must provide certifications and must maintain the certifications throughout the project. Williamson County reserves the right to require replacement of any technician during this contract if performance is determined to be unsatisfactory or the technician fails to maintain appropriate certifications.
- The Engineer shall provide technicians certified in accordance with TxDOT Quality Assurance Programs for Construction (QAP) or other State approved programs, such as the Texas Asphalt Pavement Association (TxAPA) for Hot Mix Asphalt, and the Soils and Base Certification Program, as listed below.
- Provide sampling and testing personnel qualified to perform testing of materials in the areas of Portland Cement Concrete, Soils and Aggregates, and bituminous materials. The test methods for which individuals can be qualified are listed in Section 6 Sampling and Testing Personnel Qualification Program of Williamson County Quality Control/Quality Assurance Program. The required certifications include, but are not limited to:
  - Hot Mix Asphalt Testing
    - Level I-A
    - Level I-B
    - Level II

- All other tests in the TxDOT Manual of Testing Procedures 200-F Series or ASTM procedures not covered in Level I-A, Level I-B, or Level II
- Concrete Testing
  - TxDOT QAP Program for Concrete Testing and/or
  - ACI Field Technician Certification Program
  - Other tests outline in the Manual of Testing Procedures 400-A Series or ASTM Procedures that are not included in the TxDOT QAP Program.
- Soils & Aggregates
  - Series 100-E and 400-A Lime Series
- The Engineer shall attend pre-activity meetings as requested by the Observer.

The Engineer shall:

- Review and recommend approval or rejection for all sampling and testing documentation submitted by the contractor for compliance with applicable State and federal regulations, standards, and contract requirements.
- Verify all material used meet specifications or identify materials that do not meet specifications and recommend corrective action.
- Certify that all materials used during construction meet the specifications of the contract documents.
- Work closely with Williamson County to resolve all material discrepancies and reach resolution (use-as-installed, remove/replace, deduction/penalties) before the next monthly estimate.
- Create and maintain a material testing log for each type of material tested.
- The Engineer shall report failing tests to the Williamson County representative within twenty-four (24) hours.

**DELIVERABLES:**

The Engineer will provide the following:

- Testing documentation as applicable (field technician daily report, sample documentation, test result report, etc.)
- Monthly update of the Materials Test Log
- Certification Verifications
- Letters of Certification

**ATTACHMENT C**

**WORK SCHEDULE UNKNOWN AT THIS TIME**



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#### ATTACHMENT D

Project Name: CR 255 Realignment  
 Proposal No.: P25-0104C (Revised)  
 Estimated Budget: \$172,890.00  
 Date: March 8, 2025

#### I EARTHWORK - Density Testing

1. Estimate approx. 15,254.49 feet of new pavement (2.88 miles) x 28' wide average
2. Estimate 31,446 cy Flexible Base
3. Estimate 65,691 sy of Lime Treated Subgrade
4. Estimate 8" lime stabilization (427,000 sf x 284,000 ft<sup>3</sup>)
5. Estimate 2 trips per week @ 78 weeks x 3 hours per trip

4	Moisture/Density Relationships (Subgrade)	@	\$300.00	/test	\$	1,200.00
3	Moisture/Density Relationships (Flex Base)	@	\$300.00	/test	\$	900.00
3	Moisture/Density Relationships (Lime-Treated)	@	\$300.00	/test	\$	900.00
10	Atterberg Limits	@	\$75.00	/test	\$	750.00
1	Lime Series (was left off of Rate Schedule)	@	\$450.00	each	\$	450.00
5	Testing for Soluble Sulfates (was left off of Rate Schedule)	@	\$275.00	each	\$	1,375.00
10	# 200 Wash Sieve	@	\$55.00	/test	\$	550.00
10	Lime Gradations	@	\$65.00	/test	\$	650.00
100	In-Place Densities	@	\$20.00	/test	\$	2,000.00
100	Vehicle Charges	@	\$40.00	/trip	\$	4,000.00
156	Staff Engineer	@	\$125.00	/hour	\$	19,500.00
156	Laboratory Manager	@	\$125.00	/hour	\$	19,500.00
445	Certified Engineering Technician, per hour (Reg.)	@	\$58.00	/hour	\$	25,810.00
156	Administrative Support	@	\$60.00	/day	\$	9,360.00
156	Observation & Testing Report Review	@	\$35.00	/report	\$	5,460.00
					Sub-Total	\$ 92,405.00

\$92,405.00

#### II CONCRETE Testing

1. Estimate 16 wing walls w 3 placements each
2. Estimate AEG will attend 10 of 48 wing wall placements
3. Estimate AEG will cast 4 cylinders per placement
4. Estimate 8 hours per placement, including resteel and sample retrieval

80	Certified Engineering Technician, per hour (Reg.)	@	\$58.00	/hour	\$	4,640.00
48	Compressive Strength Cylinders	@	\$20.00	/each	\$	960.00
1	Decant (TEX-406-A)	@	\$55.00	/each	\$	55.00
1	Coarse Aggregate Gradation	@	\$65.00	/each	\$	65.00
1	Fine Aggregate Gradation	@	\$50.00	/each	\$	50.00
1	LA Abrasion (TEX-410-A)	@	\$400.00	/each	\$	400.00
1	Magnesium Soundness (TEX-411-A)	@	\$450.00	/each	\$	450.00
1	Sand Equivalent (TEX-203-F)	@	\$145.00	/each	\$	145.00
1	Organic Impurities (TEX-408-A)	@	\$60.00	/each	\$	60.00
1	Deleterious Materials (TEX-413-A)	@	\$50.00	/each	\$	50.00
20	Vehicle Trips (including sample retrieval)	@	\$40.00	/each	\$	800.00
12	Administrative Support	@	\$60.00	/day	\$	720.00
10	Staff Engineer	@	\$125.00	/hour	\$	1,250.00
20	Observation & Testing Report Review	@	\$35.00	/each	\$	700.00
					Sub-Total	\$ 10,345.00

\$10,345.00





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### III ROADWAY - HMAC (Full-time during HMAC laydown operations)

1. Estimate 10,716 tons of Type B HMAC
2. Estimate 9,042 tons of Type D HMAC
3. Estimate 1-A tech in laboratory and 1-B tech on laydown end
4. Estimate 15 days of laydown operations - 12 hours per day
5. Estimate 4 sublots per day x 12 days = 8 cores per day
6. Estimate 24 Hours for Coring Ops

96	TxDOT 1B Technician Hours (Reg.) - Laydown	@	\$68.00 /hour	\$	6,528.00
48	TxDOT 1B Technician Hours (O.T.) Laydown	@	\$102.00 /hour	\$	4,896.00
96	TxDOT 1A Technician Hours (Reg.)	@	\$68.00 /hour	\$	6,528.00
48	TxDOT 1A Technician Hours (O.T.)	@	\$102.00 /hour	\$	4,896.00
48	Extraction / Gradation (Ignition Oven)	@	\$250.00 /each	\$	12,000.00
48	Maximum Theoretical (Rice) Gravity	@	\$105.00 /each	\$	5,040.00
48	HVEEM Stability	@	\$120.00 /each	\$	5,760.00
48	Molding Gytratory Specimens (Set of 3)	@	\$120.00 /each	\$	5,760.00
24	Staff Engineer	@	\$125.00 /hour	\$	3,000.00
24	Project Engineer	@	\$160.00 /hour	\$	3,840.00
24	TxDOT 1B Technician Hours (Reg.) - Coring Ops	@	\$68.00 /hour	\$	1,632.00
96	HMAC Cores for Thickness and Density	@	\$65.00 /each	\$	6,240.00
34	Vehicle Charges	@	\$40.00 /trip	\$	1,360.00
28	Administrative Support	@	\$60.00 /day	\$	1,680.00
28	Observation & Testing Report Review	@	\$35.00 /each	\$	980.00
<b>Sub-Total</b>				<b>\$</b>	<b>70,140.00</b>

\$70,140.00

**Estimated Total \$ 172,890.00**

#### NOTES:

1. Minimum call-out charge for CMT technician and equipment or sample pick-up is 3 hours. Minimum call-out charge for Certified welding inspector is 5 hours. Charges are accrued from portal to portal.
2. All laboratory test fees are F.O.B. our laboratory in Taylor, Texas unless noted otherwise. Sample pick-up charges are additional.
3. Overtime is charged for hours worked over 8 per day, before 7:00 a.m. and after 5:00 p.m. Monday through Friday.
4. Testing requested but not shown above will be priced at the time of the request.