

**SUPPLEMENTAL WORK AUTHORIZATION NO. 2
TO
WORK AUTHORIZATION NO. 7**

**WILLIAMSON COUNTY ROAD BOND PROJECT:
Southeast Loop Phase 2 PS&E**

This Supplemental Work Authorization No. 2 to Work Authorization No. 7 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated March 13, 2017 (“Contract”) and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Johnson, Mirmiran & Thompson, Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 7 dated effective November 21, 2024 (the “Work Authorization”);

WHEREAS, pursuant to Article 14 of 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 Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

- I. The Services to be Provided by the County that were set out in the original Attachment “A” of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment “A7-2” (must be attached).
- II. The Services to be Provided by the Engineer that were set out in the original Attachment “B” of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment “B7-2” (must be attached).
- III. The Work Authorization shall terminate on October 30, 2026. The Services to be Provided by the Engineer 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 “C7-2” (must be attached).
- IV. The maximum amount payable for services under the Work Authorization is hereby increased from \$800,754.84 to \$1,357,516.54. The revised Fee Schedule is attached hereto as Attachment “D7-2” (must be attached).

ATTACHMENT A7-2
SERVICES TO BE PROVIDED BY THE COUNTY
FOR SOUTHEAST LOOP PHASE 2

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.
2. Assistance to the Engineer, as necessary, with obtaining data and information from other local, regional, State and Federal agencies required for this project.
3. Obtain Rights of Entry from landowners that are willing to grant access to the Engineer.
4. Provide available appropriate County data on file including plans and specifications that are deemed pertinent to the completion of the work required by the scope of services (including previous hydraulic studies, models, previous reports and studies, available existing traffic counts, and design year traffic projections).
5. Provide available criteria and full information as to the client's requirements for the project. Provide examples of acceptable format for the required deliverables.
6. Provide information on any meetings/discussions held with adjoining property owners that may impact the project.
7. Provide timely reviews and decisions necessary for the Engineer to maintain the project work schedule. Review recommendations offered by the Engineer, progress of work, and final acceptance of all documents.
8. Submittal of documentation and permits to regulatory agencies for review and comment, when specified.
9. Support project development efforts with stakeholders, coordinate meetings and interface with stakeholders, as needed.
10. Post and maintain project information for public consumption on the County website.
11. Assist with Coordination between the Engineer and the County's other consultants.

12. Negotiate with all utility companies for any agreements and/or relocations required.
13. Provide an agent as necessary to secure proposed ROW and relocate/remove improvements on proposed ROW.
14. Provide construction observation and review contractor pay application and progress.
15. Provide Engineer with Contractor submittals, Requests for Information (RFI's, shop drawings, and correspondence.
16. Review Engineer progress, submittals, and plan changes.
17. Provide Contractor to perform clearing of trees identified by the Engineer for the archeological investigations under TAC permit for 41WM1535 and FM 1660 realignment
18. Install sediment erosion control measures (silt fence) for archeological investigations under TAC permit for 41WM1535 and FM 1660 realignment
19. Provide water pumps and perform dewatering of excavations after rain events.
20. Provide inspection of sediment erosion control and reports.

**ATTACHMENT B7-2
SERVICES TO BE PROVIDED BY THE ENGINEER
ENVIRONMENTAL SERVICES
SOUTHEAST LOOP PHASE 2**

PROJECT DESCRIPTION

Project Limits

New location from CR 137 to CR 404.

Proposed Facility

Construct a new 2 lane roadway with continuous turn lanes and shared use path to serve as the future eastbound / northbound frontage road.

TASK DESCRIPTIONS

The Engineer shall categorize each task performed to correspond with the following Task Numbers and descriptions.

Scope of Work

Fieldwork, analysis and reporting for archeological investigations under TAC permit for 41WM1535 and FM 1660 realignment.

SWA 1 Additional field work analysis and report for data recovery phase extending from June 1, 2025, to September 30, 2026.

SWA2 adds additional field work analysis and reporting for data recovery phase under TAC permit 41WM1535 extending from June 1, 2025 to October 30, 2026.

1. PROJECT MANAGEMENT (JMT)

a. Monthly Progress Report, Invoices, and Billings (17 months assumed):

- Submit monthly progress status reports to the GEC. Progress reports will include deliverable table, tasks completed, tasks/objectives that are planned for the upcoming periods, list or description of items or decisions needed from the County and its representative. Subconsultant progress will be incorporated into the monthly progress report. A copy of the monthly progress report will be uploaded to ProjectWise.
- Prepare correspondence, invoices, and progress reports monthly in accordance with current County requirements.

b. Project Coordination & Administration (17 months assumed):

- Prepare and maintain routine project record keeping including records of meetings and minutes.

- Correspondence and coordination will be handled through & with the concurrence of the GEC.
- Manage project activities (including documenting emails, phone and conference calls, maintain project files for the length of the project, meeting agendas, meeting minutes, and schedule meetings), direct Engineer's team/staff, coordinate and review sub consultant work, correspond with the County and its representatives, and assist the County and its representatives in preparing responses to project-related inquiries.

Deliverables:

- Monthly Invoices and Progress Reports
- Meeting Minutes, Sign-In Sheets, and Agendas

7. ENVIRONMENTAL SERVICES

e. Texas Antiquities Code (TAC) Compliance:

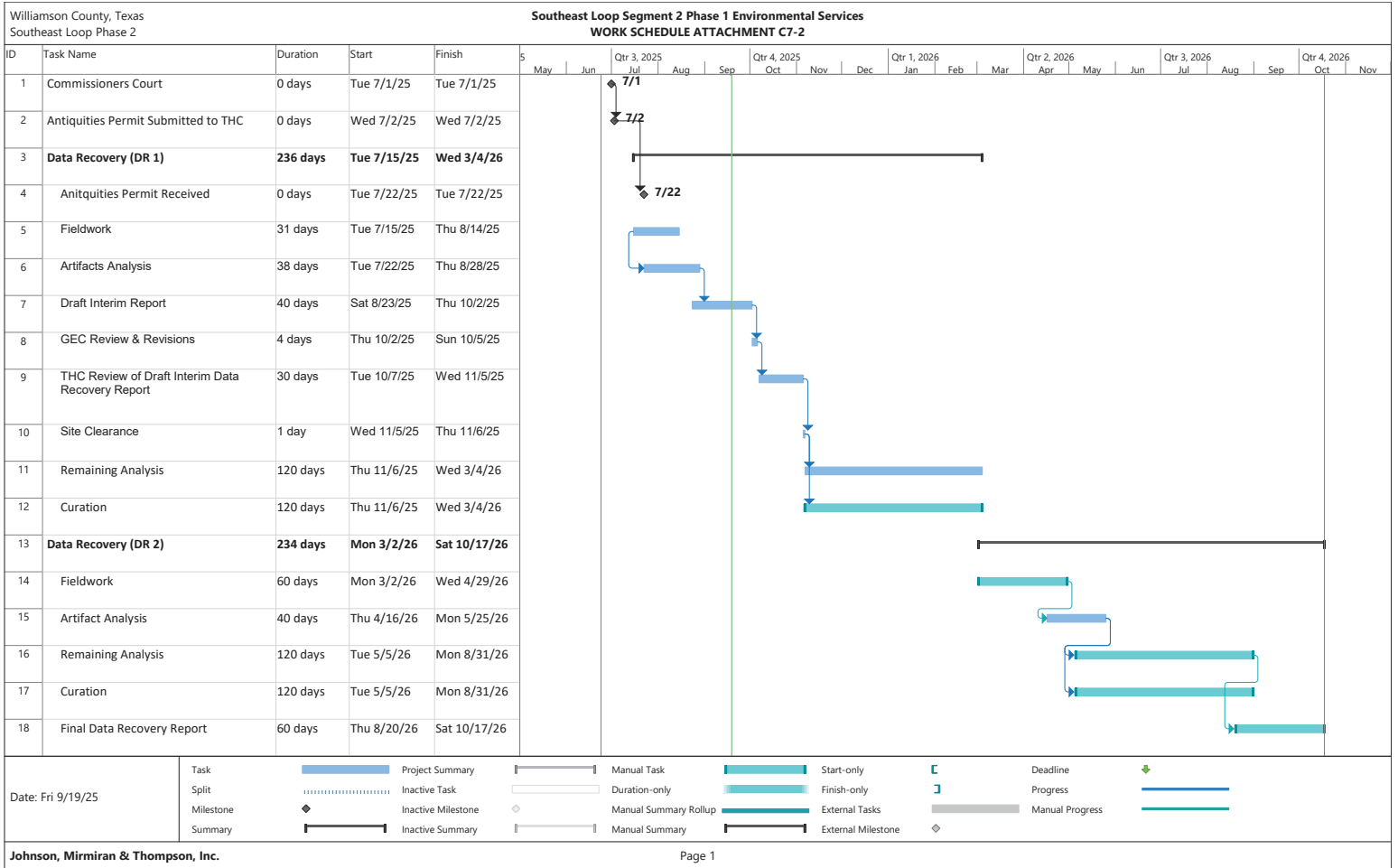
- Agency coordination
 - i. Update and/or produce a new Antiquities Permit to cover data recovery investigations.
 - ii. Continue coordination with the THC throughout the project to ensure the terms of the Antiquities Permit are met.
- Field work
 - i. Conduct archeological data recovery excavations at site 41WM1535 to mitigate adverse effects to the site due to the construction of Southeast Loop. Proposed fieldwork will consist of mechanical trenching, and hand excavation of test units, geomorphological analysis, and collection of soil and radiocarbon samples.
 - ii. All artifacts collected from hand excavations will be collected for analysis and curation except for thermally altered rocks. Thermally altered rocks will be sorted by size and weighed by size and provenience before being discarded in the field; a small sample will be retained for curation.
 - iii. Soil samples will be collected from each excavated feature for flotation. Burned material from feature contexts will be collected for radiocarbon dating.
- Laboratory analyses
 - i. Clean all collected artifacts, after which they will be sorted into classes, quantified by provenience, and entered into an excel database. JMT will analyze all faunal material to identify all specimens to the most specific possible taxon. Where possible, individual elements will be recorded, and a minimum number of individuals will be estimated.
 - ii. Soil samples collected from features will undergo flotation processing and light fractions will be sent to a paleoethnobotanist for analysis of any macrobotanical remains present.
- Report
 - i. Prepare a draft report in accordance with the Council of Texas Archeologists' Guidelines and Standards for CRM Reports. The report will include environmental and cultural contexts for the region, methods

used, and results of the data recovery excavations and subsequent analyses. The draft report will be submitted to the GEC for review and comment. Once approved, JMT will submit the draft report to the THC for review.

- Curation
 - i. Preparation of project records and artifacts for curation at the Texas Archeological Research Laboratory (TARL) at the University of Texas.
- Assumptions and Exclusions
 - i. JMT will excavate no more than one deep trench (>8 feet deep) and 4 shallow trenches (<8 feet deep).
 - ii. Hand excavation will be limited to no more than five (5) cubic meters of sediment.
 - iii. JMT will submit up to 10 samples for radiocarbon dating.
 - iv. JMT or its subconsultant will submit up to one single grain sample for optically stimulated luminescence (OSL) dating.
 - v. Up to 30 light fractions from flotation will be sent to a paleoethnobotanist for analysis.
 - vi. JMT will analyze up to 300 individual faunal specimens.
 - vii. JMT assumes no human burials are present within the project area. This scope of work does not include excavation of human burials, tribal coordination, or any additional permitting related to human burials. If human burials are found during the course of data recovery excavation, their removal and any associated work will be coordinated under a separate scope and fee.
 - viii. JMT will not conduct mechanical excavations deeper than 19 feet below ground surface.
 - ix. JMT will not dewater any deep mechanical excavations. If ground water is encountered, excavation of the trench will cease. If rain leads to standing water in trenches, work in those trenches will cease until the water has receded.

Deliverables:

- Update Antiquities permit scope of work for data recovery excavations
- Draft and Final Archeological Reports



**ATTACHMENT D7-2
FEE SCHEDULE**

**FOR
JOHNSON, MIRMIRAN & THOMPSON, INC**

Southeast Loop Phase 2

For services described in the Scope of Services, we request the compensation as detailed below. Cost breakdowns for environmental services and explanation of expenses are shown on the following pages.

SWA2 to WA7 AMOUNT

\$556,761.70

ATTACHMENT D7-2 - FEE SCHEDULE

**Fee Schedule Summary
Johnson, Mirmiran & Thompson, Inc.
Southeast Loop Phase 2**

W A 7	Description of Work or Task	JMT (100.0%)	STN (0.0%)	CDF	Cost / Task Totals
	Task 1. PROJECT MANAGEMENT	\$ 9,156.00	\$ -	\$ -	\$ 9,156.00
Task 7. ENVIRONMENTAL SERVICES	\$ 85,208.80	\$ -	\$ -	\$ 85,208.80	
DIRECT EXPENSES SUMMARY	\$ 25,888.00	\$ -	\$ -	\$ 25,888.00	
FEE SCHEDULE SUMMARY		\$ 120,252.80	\$ -	\$ -	\$ 120,252.80

S W A 1	Description of Work or Task	JMT (100.0%)	STN (100.0%)	CDF (100.0%)	Cost / Task Totals
	Task 1. PROJECT MANAGEMENT	\$ 36,940.00	\$ -	\$ -	\$ 36,940.00
Task 7. ENVIRONMENTAL SERVICES	\$ 401,502.00	\$ 86,310.00	\$ 62,336.96	\$ 550,148.96	
DIRECT EXPENSES SUMMARY	\$ 65,726.00	\$ -	\$ 27,687.08	\$ 93,413.08	
FEE SCHEDULE SUMMARY		\$ 504,168.00	\$ 86,310.00	\$ 90,024.04	\$ 680,502.04

S W A 2	Description of Work or Task	JMT* (100.0%)	STN (0.0%)	CDF (100.0%)	Cost / Task Totals
	Task 1. PROJECT MANAGEMENT	\$ 69,414.00	\$ -	\$ -	\$ 69,414.00
Task 7. ENVIRONMENTAL SERVICES	\$ 353,936.00	\$ -	\$ 54,005.40	\$ 407,941.40	
DIRECT EXPENSES SUMMARY	\$ 57,892.30	\$ -	\$ 21,514.00	\$ 79,406.30	
FEE SCHEDULE SUMMARY		\$ 481,242.30	\$ -	\$ 75,519.40	\$ 556,761.70

*Burns Excavation efforts included in JMT work

<u>Supplemental Work Authorization 2</u>		
Johnson, Mirmiran & Thompson, Inc.		\$ 481,242.30
Stantec Consulting Services, Inc.		\$ -
Charles D. Frederick		\$ 75,519.40
SWA2 to WA7 SUBTOTAL		\$ 556,761.70
PROJECT TOTAL		\$ 1,357,516.54

Summary of Manhours by Classification
 Johnson, Mirmiran & Thompson, Inc.
 Southeast Loop Phase 2

Description of Work or Task	Project Director \$292.00/Hr	Sr. Project Manager \$285.00/Hr	Senior Prof. 2 \$289.00/Hr	Senior Prof. 1 \$227.00/Hr	Prof. 2 / Sr. Eng. Tech \$194.00/Hr	Prof. 1 / Eng. Tech \$149.00/Hr	Sr. ENV Scientist II \$150.00/Hr	Sr. ENV Scientist \$140.70/Hr	ENV Prof. I \$95.00/Hr	ENV Staff III \$85.00/Hr	ENV Staff II \$75.00/Hr	Admin / Clerical \$54.00/Hr	Staff-Hr. Totals	Staff Cost / Task Totals
Task 1. PROJECT MANAGEMENT														
a. Monthly Progress Report, Invoices, and Billings (Remaining 12 months)														
Submit Monthly Progress Reports to GEC	18	24										12	54	\$ 13,104.00
Prepare Correspondence, Invoices, and Progress Reports Monthly		24										24	48	\$ 8,856.00
b. Project Coordination & Administration (Remaining 12 months)														
Prepare and maintain records	12	18										16	46	\$ 9,978.00
Correspondence and coordination with GEC	12	60										36	108	\$ 23,628.00
Correspondence and coordination outside GEC	24	24										48	48	\$ 13,848.00
PROJECT MANAGEMENT Subtotal:	66	150	0	0	0	0	0	0	0	0	0	88	304	\$ 69,414.00
Task 7. ENVIRONMENTAL SERVICES														
e. Texas Antiquities Code (TAC) Compliance														
Agency Coordination								20					20	\$ 2,814.00
Fieldwork						140		160	260	260	580		1400	\$ 133,672.00
Laboratory Analysis								80	480	240	80		880	\$ 83,256.00
Technical Report								400	400	140			940	\$ 106,180.00
Curation								20	140	140			300	\$ 28,014.00
ENVIRONMENTAL SERVICES Subtotal:	0	0	0	0	0	140	0	680	1280	780	660	0	3540	\$ 353,936.00
JMT Subtotal:	66	150	0	0	0	140	0	680	1280	780	660	88	3844	\$ 423,350.00
Direct Expenses:														\$ 57,892.30
JMT SUMMARY	66	150	0	0	0	140	0	680	1280	780	660	88	3844	\$ 481,242.30

**Summary of Direct Expenses
Johnson, Mirmiran & Thompson, Inc.
Southeast Loop Phase 2**

Item Description	Unit	Quantity	Unit Cost	Total Cost
I. Total Station Rental	Per Month	1	\$1,850.00	\$1,850.00
II. Gradall Rental	Per Day	11	\$2,000.00	\$22,000.00
III. Radiocarbon Dating	Per Sample	10	\$400.00	\$4,000.00
IV. Records Curation Fees	Per Project		\$456.00	\$0.00
V. Collections Curation Fees	Per Project	1	\$760.00	\$760.00
VI. TARL Site Form	Per Form		\$110.00	\$0.00
VII. Paleoethnobotanical Analysis	Per Sample	30	\$210.00	\$6,300.00
VIII. Field Supplies (pencils, artifact bags, fencing, etc.)	Per Project	1	\$500.00	\$500.00
IX. Portable toilet with hand sanitizer	Per Month	2	\$165.00	\$330.00
X. POD storage	Per Month	2	\$254.65	\$509.30
XI. Generator, tents, tables, etc.	Per Month	2	\$1,000.00	\$2,000.00
XII. Mileage	Mile	3,000	\$0.700	\$2,100.00
XIII. Meals	Per Day	77	\$59.00	\$4,543.00
XIV. Hotel	Per Night	70	\$150.00	\$10,500.00
XV. Rental Trucks	Per Day	20	\$125.00	\$2,500.00
Johnson, Mirmiran & Thompson, Inc. Total Direct Expenses				\$57,892.30

**Summary of Manhours by Classification
Charles D. Frederick
Southeast Loop Phase 2**

Description of Work or Task	Geoarcheologist II \$140.79/Hr	Geoarcheologist I \$100.00/Hr	Staff-Hr. Totals	Staff Cost / Task Totals
Task 1. PROJECT MANAGEMENT				
a. Monthly Progress Report, Invoices, and Billings				\$0.00
b. Project Coordination & Administration				\$0.00
Project Management Subtotal:	0	0	0	\$0.00
Task 7. ENVIRONMENTAL SERVICES				
c. Archeology				
i. Fieldwork	140	54	194	\$25,110.60
ii. Labwork		120	120	\$12,000.00
iii. Reporting	120		120	\$16,894.80
Environmental Services Subtotal:	260	174	434	\$54,005.40
Charles Frederick Subtotal	260	174	434	\$54,005.40
Expenses				\$21,514.00
Charles Frederick Summary	260	174	434	\$75,519.40

**Summary of Direct Expenses
Charles D. Frederick
Southeast Loop Phase 2**

Item Description	Unit	Quantity	Unit Cost	Total Cost
Direct Expenses				
I. Meals	Per Day	22	\$59.00	\$1,298.00
II. Lodging	Per Night	22	\$173.00	\$3,806.00
III. Mileage	Per Mile	1,000	\$0.70	\$700.00
IV. Supplies	Each	1	\$300.00	\$300.00
V. Organic Carbon Analysis	Each	150	\$25.00	\$3,750.00
VI. Dating (Radiocarbon/OSL)	Each	8	\$1,445.00	\$11,560.00
VII. Postage	Each	1	\$100.00	\$100.00
VIII. Soil Micromorphology	Each		\$400.00	\$0.00
Charles Frederick Total Direct Expenses				\$21,514.00