

**SUPPLEMENTAL WORK AUTHORIZATION NO. 6**  
**TO**  
**WORK AUTHORIZATION NO. 5**

**WILLIAMSON COUNTY ROAD BOND PROJECT:**  
**Southeast Loop Phase 2 (EWH Seg 2) PS&E**

This Supplemental Work Authorization No. 6 to Work Authorization No. 5 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. 5 dated effective July 16, 2021 (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 "A" (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 "B" (must be attached).
- III. The Work Authorization shall terminate on January 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 "C" (must be attached).
- IV. The maximum amount payable for services under the Work Authorization is hereby increased from \$4,606,760.92 to \$4,996,418.71. The revised Fee Schedule is attached hereto as Attachment "D" (must be attached).

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 Engineer have executed this Supplemental Work Authorization, to be effective as of the date of the last party's execution below.

**ENGINEER:**

By: Kristi Flagg  
Signature

Kristi Flagg  
Printed Name

Senior Vice President  
Title

1/7/2025  
Date

**COUNTY:**

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

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

**LIST OF ATTACHMENTS**

Attachment A5-6 - Services to be Provided by County

Attachment B5-6 - Services to be Provided by Engineer

Attachment C5-6 - Work Schedule

Attachment D5-6 - Fee Schedule

**APPROVED**

*By Christen Eschberger at 10:20 am, Jan 23, 2025*

**ATTACHMENT A5-6**  
**SERVICES TO BE PROVIDED BY THE COUNTY**  
**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 Count'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
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.

**ATTACHMENT B5-6**  
**SERVICES TO BE PROVIDED BY THE ENGINEER FOR**  
**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 a continuous two-way left 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

Johnson, Mirmiran, & Thompson, Inc. has been requested and given notice to proceed on June 9, 2021 at scoping meeting to provide a detailed 45% Plans, Specification, and Estimate (PS&E) for Phase 2 of the Southeast Loop.

Supplemental #1 was to continue the effort and scope needed to advance the 45% PS&E to final construction documents.

Supplemental #2 was to Project Management effort past the original design effort to change project limits (tie into FM 3349 project north of Boggy Creek), incorporate QL A SUE not available prior to the 100% Submittal, missing ROE to complete the PS&E, for environmental services and supporting ROW exhibit requests. The supplemental adds additional effort for Submittal of an Approved Jurisdictional Determination, Submittal of Nationwide Permit and Historic Resources Coordination. Finally, the supplemental is needed to allow for design coordination, alternatives analysis and design revisions based on QL A SUE and coordination with utility companies to address utility conflicts, to reduce Waters of the U.S. impacts, and to support ongoing ROW acquisition efforts.

Supplemental #3 adds effort and scope for FM 1660 addendum to final construction documents including supplemental survey. Scope is for one submittal of FM 1660 addendum signed and sealed plans. Supplemental also includes scope for preparation of TAC permit for 41WM1535.

Supplemental #4 extended the termination date to October 31, 2024.

Supplemental #5 extended the termination date to January 31, 2025.

Supplemental #6 adds effort and scope for FM 1660 revisions and PS&E package for FM 1660 and FM 3349/CR 404. Also adds effort and scope for the development of an Environmental Assessment (EA) in accordance with *24 CFR Part 58 Environmental Review Procedures for Entities Assuming HUD Environmental Responsibilities* – Subpart E (Environmental Review Process: Environmental Assessments).

## 1. PROJECT MANAGEMENT (JMT)

- a. General Project Management (January 2025 to December 2025):
  - Designate one Licensed Professional Engineer (Texas) to be responsible for project management, and all communications with the County and its representatives.
  - The Engineer shall establish a schedule for the engineering services to be performed by the subconsultants. The engineer shall be responsible for the coordination, supervision, review, and incorporation of the subconsultants' work.
- b. Monthly Progress Report, Invoices, and Billings (January 2025 to December 2025):
  - 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.
- c. Quality Assurance and Quality Control (QA/QC) Plan:
  - For each deliverable submittal, provide evidence of their internal review and mark-up of that deliverable as preparation for submittal and in accordance with submitted project specific QA/QC plan.
  - Provide continuous QA/QC throughout the duration of the scheduled services included herein to appraise both technical and business performance and provide direction for project activities.
- d. Project Coordination & Administration (January 2025 to December 2025):
  - 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.
- e. Progress/Coordination Meetings:
  - Attend monthly coordination/progress meeting with the County and its representatives and stakeholders, as necessary to communicate development of the project and design issues (2 external meeting assumed).

- Prepare agenda and sign-in sheets for external coordination/progress meetings (2 external meeting assumed).
  - Prepare meeting minutes for review via email within three (3) business days of the external coordination/progress meeting (2 external meeting assumed).
  - Conduct internal coordination meetings as required to advance the development of the project (2 internal meeting assumed).
- f. Stakeholder Coordination (Utility coordination and peer review coordination meetings) NOT USED
- g. Project Schedule (January 2025 to December 2025):
- Maintain a project schedule indicating tasks, subtasks, critical dates, milestones, and deliverables. Submit to County as requested.
- h. Submittal Review Process:
- Attend Comment Resolution Meetings for each milestone submittal
  - Respond to Review Comments

**Deliverables:**

- Monthly Invoices and Progress Reports including Deliverable Table
- Meeting Minutes, Sign-In Sheets, and Agendas
- Project Schedule and Updates
- Project Files
- QA/QC Documentation with Deliverable
- Document Response Comments

2. ROUTE AND DESIGN STUDIES (JMT) (No additional work in this supplemental)
3. DRAINAGE STUDY (JMT) (No additional work in this supplemental)
4. PUBLIC INVOLVEMENT (JMT)
  - a. Individual Property Owner Meeting Support
    - Prepare materials and provide support for meetings with Individual Property Owners. One person will attend from engineering team as requested (Support for 10 parcels/exhibits).
5. RIGHT OF WAY (ROW) MAPPING (JMT/SAM) NOT USED
6. FIELD SURVEYING (SAM) (NOT USED)
7. ENVIRONMENTAL SERVICES (STN) (JMT)

EA will assess one Build Alternative and be prepared utilizing all previously prepared environmental documents in support of the HUD EA. Provide the appropriate level of additional information to support the following topics and provide the indicated project support tasks:

- a. HERO documentation and management
  - Obtain a login to the HERO system and will manage the upload and comment/response process for HUD EA documentation.
- b. Historic Resources
  - Prepare a letter to the Texas Historical Commission (THC) to update the agency regarding the change in the federal nexus since the time of the last coordination on the project (November 2022). Assumes no additional historic investigations will be required.
  - Will summarize the findings of the 2022 investigations for use in the EA and assemble the supporting documentation.
- c. Archeological Resources
  - Coordinate with the THC to update the agency regarding the change in the federal nexus since the time of the Report of Findings from the 2023 archaeological survey. Assumes no further archaeological fieldwork will be necessary.
  - Will summarize the findings from the 2023 and 2022 surveys for use in the EA and assemble the supporting documentation.
- d. Socioeconomic and Environmental Justice
- e. HUD Noise Analysis (manual method to be completed according to HUD requirements)
- f. Water Resources, Wetlands, and Floodplains (no hydrologic analysis or modelling included)
  - Update the Waters of the U.S. (including wetlands) determination and delineation for inclusion in the EA and assemble the supporting documentation. No USACE permits or jurisdictional determinations are included under this scope of work.
- g. Natural resources (farmlands, etc)
- h. Hazardous Materials Database Search and Analysis
- i. Climate and GHG
- j. Other HUD Categories including Airport Clear Zones/CZMA Proximity
- k. Comment Response and RROF
- l. USACE Permit and USACE Coordination if required by HUD

The EA will be prepared to comply with *24 CFR Part 50.4, 58.5, and 58.6 Laws and Authorities*

including statements with regard to these categories mentioned in the guidance:

- the National Historic Preservation Act of 1966 and other cultural resources regulations
- Floodplain Management
- Wetlands Protection
- Coastal Zone Management
- Sole Source Aquifers
- Endangered Species
- Wild and Scenic Rivers
- Air Quality
- Farmland Protection
- Noise Control and Abatement
- Explosive and Flammable Operations
- Airport Hazards (Runway Clear Zones)
- Contamination and Toxic Substances (a Hazardous Materials Database Search will be conducted)
- Environmental Justice (Executive Order 12898)

Deliverables:

- HUD EA Documentation

8. GEOTECHNICAL SERVICES (HVJ) NOT USED

9. PLAN PREPARATION (PS&E) SERVICES (JMT/H&H) (PS&E Package for FM 1660 and FM 3349/CR 404)

Update design for FM 1660 revisions and prepare plans package for FM 1660 and FM 3349 and CR 404 intersections.

a. Roadway Design/General:

- Index of Sheets
  - Prepare index sheets for plan sheet updates resulting from the additional work included in this supplemental work authorization.
- Project Layout
  - Prepare project layout sheets to include revised design resulting from the additional work included in this supplemental work authorization.
- General Notes
  - Prepare general notes to comply with design changes included in this supplemental



work authorization.

- Construction Cost Estimate
  - Prepare construction cost estimate to comply with design changes included in this supplemental work authorization. In addition, update estimate bid item unit prices to reflect recent industry pricing trends.
- Horizontal Alignment Data
  - Prepare horizontal alignment data sheets to include revised design resulting from the additional work included in this supplemental work authorization.
- Quantity Summary Sheets
  - Prepare summary sheets to include revised design resulting from the additional work included in this supplemental work authorization.
- Roadway Plan & Profiles
  - Prepare roadway plan and profile sheets to include revised design resulting from the additional work included in this supplemental work authorization.
- Driveway Details
  - Prepare driveway layout sheets to include revised design resulting from the additional work included in this supplemental work authorization.
- Miscellaneous Roadway Details
  - Develop miscellaneous roadway detail sheets for the project that depict details required, which are not defined in standard detail sheets.
- Cross Sections / Cut and Fill Quantities
  - Prepare cross sections and earthwork analysis to include reflect revised design resulting from the additional work included in this supplemental work authorization.

b. Traffic Control:

- Traffic Control Plans (TCP)
  - Prepare traffic control narrative, traffic control typical sections, TCP layouts, and traffic control details to include revised design resulting from the additional work included in this supplemental work authorization.
  - Prepare Engineer's opinion of construction schedule to determine an approximate duration for each of the phases of construction.

c. Signing and Pavement Markings Layouts

- Prepare signing and pavement marking layouts.
  - Unless otherwise directed by the County, all at-grade intersections are assumed to be all-way stops.
- Prepare pavement marking details for non-standard conditions.

- Prepare detail sheets for small signs for non-standard signs.
- d. Bridge Design (not included)
- e. Drainage:
- Drainage Area Maps
    - Develop proposed external drainage area maps for updates to show the overall project and drainage basin divides.
    - Add up to one sheet for the Boggy Creek Watershed analysis and up to two additional sheets for the ditch drainage areas.
  - Culvert Layout Sheets
    - Develop culvert layout sheets at all the major crossing locations, up to one (1) locations.
    - Identify areas of the culvert construction that will require trench protection or special shoring.
  - Hydraulic Data Sheets
    - Develop updated hydraulic data sheet at affected crossing locations.
    - Up to three sheets will be added for the Boggy Creek Hydraulic analysis.
  - Culvert Standards and Detail Sheets
    - Select culvert standards based on headwall configuration and fill conditions. Develop details as needed for non-standard headwalls, special grading at upstream and downstream transitions and energy dissipation.
  - Parallel Drainage design
    - Prepare interior drainage area maps that depict drainage area boundaries and flow direction arrows. Each area will be identified and cross-referenced to the calculation sheets.
    - Prepare Drainage plan and profiles
      - Storm Sewer Design
        - Design and analyze storm drains using Geopak Drainage.
        - Size inlets, laterals, trunk line and outfall. Develop designs that minimize the interference with the passage of traffic or incur damage to the highway and local property in accordance with the State's Hydraulic Design Manual, District criteria and any specific guidance provided by the County.
        - Determine hydraulic grade line starting at the outfall channel each storm drain design. Use the design water surface elevation of the outfall as the starting basis (tailwater) for the design of the proposed storm sewer system.
        - Limit discharge into existing storm drains and existing outfalls to the capacity of the existing system, which will be determined by the Subconsultant.

- Roadside Ditch Design
  - Prepare calculations for run-off to each hydraulic crossing or driveway culvert(s) and ditch hydraulic information in accordance with Williamson County Design Criteria Manual and shown on the run-off and ditch computation sheets.
  - Prepare tabular ditch layout schedule that depicts pertinent information about the roadside ditch geometry and design. This table will include station, offset, flow line elevation, velocity, ditch lining material, as well as ditch bottom width. The tables will be shown on the hydraulic data sheets.
  - Provide drainage design details for “non-standard” drainage structures in instances where they are not covered by County or TxDOT standard details. Use standards details where practical.
  - Prepare storm sewer standard details sheets
  - Prepare miscellaneous drainage details sheet(s)

f. Stormwater Pollution Prevention Plan (SW3P):

- Prepare SWP3 sheet, and temporary erosion control layouts to include revised design resulting from the additional work included in this supplemental work authorization.

g. Traffic Signal Design:

- The Engineer will prepare construction documents including plans, specifications and estimates (PS&E) for the installation of a traffic control signal at the intersection of FM 1660 and SE Loop.
- Final plans and specifications will consist of:
  - General Notes and Summary of Quantities
  - Proposed Signal Layouts
  - Signal Elevations
  - Signal Electrical Wiring Details
  - Signal Phasing and Detection Schemes
  - ADA Ramps and associated pedestrian poles, pedestrian signal heads, and pedestrian push button units
  - TxDOT Standard Details
- Williamson County/TxDOT will develop the traffic signal timings for the signal

Deliverables:

- 60% PS&E Submittal including applicable items per Williamson County Submittal Checklists
- 90% PS&E Submittal including applicable items per Williamson County Submittal Checklists

- 100% PS&E Submittal including applicable items per Williamson County Submittal Checklists

#### 10. BIDDING PHASE SERVICES

- Prepare Specification List, Bid Form, Special Specifications and Provision documents for bidding. Manual to be developed by GEC.
- Attend the pre-bid meeting.
- Respond to bidder's questions during the bid period.
- Prepare project addenda up to three (3) during bid period.
- Analyze contractor bids, prepare bid tabulation, and make recommendation for award to the apparent low bidder via a letter.

##### **Deliverables:**

- Bid Tab and Construction documents
- Letter of Recommendation for Aard, with Bid Tabulation.

#### 11. EXCLUSIONS:

- The following items are not included in this work authorization:
  - TRAFFIC DATA COLLECTION OR TRAFFIC ANALYSIS.
  - CONSTRUCTION PHASE SERVICES.
  - UTILITY COORDINATION OR RELOCATION ESTIMATES.

Willimson County, Texas

Southeast Loop Ph2

Southeast Loop Segment 2 Phase 1 PS&E

WORK SCHEDULE EXHIBIT C5-6

ID	Task Name	Duration	Start	Finish	Predecessors	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter				
1	Wilco Southeast Loop Ph2	1186 days	Wed 6/9/21	Wed 12/31/25																													
2	Start Date	0 days	Wed 6/9/21	Wed 6/9/21																													
3	HUD EA Approval	251 days	Wed 1/15/25	Wed 12/31/25																													
4	Notice to Proceed	0 days	Wed 1/15/25	Wed 1/15/25																													
5	Technical Studies - Noise and Socioeconomic	60 days	Wed 1/15/25	Tue 4/8/25	4																												
6	HERO Coordination and Data Entry	206 days	Wed 1/15/25	Wed 10/29/25	4																												
7	EA Approval	30 days	Thu 10/30/25	Wed 12/10/25	6																												
8	HUD Notice of Intent to Request Release of Funds	15 days	Thu 12/11/25	Wed 12/31/25	7																												
9	PS&E Update (2025)	122 days	Mon 1/6/25	Tue 6/24/25																													
10	60% Submittal	40 days	Mon 1/6/25	Fri 2/28/25																													
11	Roadway Design and XS/Modeling Updates	10 days	Mon 1/6/25	Fri 1/17/25																													
12	Drainage Design Updates	10 days	Mon 1/13/25	Fri 1/24/25	11SS+5 days																												
13	Misc. Design Updates (Signal, TCP, SPM, SW3P)	5 days	Mon 1/20/25	Fri 1/24/25	11																												
14	Plan Production	5 days	Mon 1/27/25	Fri 1/31/25	13SS+5 days																												
15	Internal QC	2 days	Mon 2/3/25	Tue 2/4/25	14																												
16	Supporting Documents	2 days	Wed 2/5/25	Thu 2/6/25	15																												
17	Submittal	1 day	Fri 2/7/25	Fri 2/7/25	16																												
18	Plan Review	15 days	Mon 2/10/25	Fri 2/28/25	17																												
19	90% Submittal	43 days	Mon 3/3/25	Wed 4/30/25																													
20	Roadway Design and XS/Modeling Updates	10 days	Mon 3/3/25	Fri 3/14/25	18																												
21	Drainage Design Updates	10 days	Mon 3/10/25	Fri 3/21/25	20SS+5 days																												
22	Misc. Design Updates (Signal, TCP, SPM, SW3P)	10 days	Mon 3/10/25	Fri 3/21/25	20SS+5 days																												
23	Plan Production	10 days	Mon 3/17/25	Fri 3/28/25	20																												
24	Internal QC	5 days	Mon 3/31/25	Fri 4/4/25	23																												
25	Supporting Documents	2 days	Mon 4/7/25	Tue 4/8/25	24																												
26	Submittal	1 day	Wed 4/9/25	Wed 4/9/25	25																												
27	Plan Review	15 days	Thu 4/10/25	Wed 4/30/25	26																												
28	100% Submittal	39 days	Thu 5/1/25	Tue 6/24/25																													
29	Roadway Design and XS/Modeling Updates	5 days	Thu 5/1/25	Wed 5/7/25	27																												
30	Drainage Design Updates	5 days	Thu 5/8/25	Wed 5/14/25	29SS+5 days																												
31	Misc. Design Updates (Signal, TCP, SPM, SW3P)	5 days	Thu 5/8/25	Wed 5/14/25	29SS+5 days																												
32	Plan Production	5 days	Thu 5/15/25	Wed 5/21/25	31																												
33	Internal QC	5 days	Thu 5/22/25	Wed 5/28/25	32																												
34	Supporting Documents	2 days	Thu 5/29/25	Fri 5/30/25	33																												
35	Submittal	1 day	Mon 6/2/25	Mon 6/2/25	34																												
36	Plan Review & Processing for Bid Phase	16 days	Tue 6/3/25	Tue 6/24/25	35																												
37	Bid Phase	48 days	Wed 6/25/25	Fri 8/29/25																													
38	Advertise for bid	45 days	Wed 6/25/25	Tue 8/26/25	36																												
39	Bid Opening	0 days	Fri 8/29/25	Fri 8/29/25	38FS+3 days																												
40	End Date	0 days	Fri 1/30/26	Fri 1/30/26	8FS+21 days																												

Date: Tue 1/7/25

Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Critical

Critical Split

Progress

Deadline

Johnson, Mirmiran &amp; Thompson, Inc.

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Tue 1/7/25

**EXHIBIT D5-6  
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 engineering services and explanation of expenses are shown on the following pages.

**SWA6 to WA5 AMOUNT**

**\$319,825.00**

## EXHIBIT D5-6 - FEE SCHEDULE

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

W A 5	Description of Work or Task	JMT (90.6%)	SAM (2.4%)	STN (3.4%)	HVJ (0.0%)	H&H (3.6%)	Cost / Task Totals
	Task 1. PROJECT MANAGEMENT	\$170,962.50	\$0.00	\$10,680.00	\$0.00	\$0.00	\$181,642.50
	Task 2. ROUTE AND DESIGN STUDIES	\$44,750.00	\$0.00	\$0.00	\$0.00	\$0.00	\$44,750.00
	Task 3. DRAINAGE STUDY	\$368,490.00	\$0.00	\$0.00	\$0.00	\$0.00	\$368,490.00
	Task 4. PUBLIC INVOLVEMENT (to be included at a later date)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 5. RIGHT OF WAY (ROW) MAPPING	\$22,800.00	\$33,024.00	\$0.00	\$0.00	\$0.00	\$55,824.00
	Task 6. SURVEYING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 7. ENVIRONMENTAL SERVICES	\$0.00	\$0.00	\$36,040.00	\$0.00	\$0.00	\$36,040.00
	Task 8. GEOTECHNICAL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 9. PLAN PREPARATION (PS&E)	\$646,500.00	\$0.00	\$0.00	\$0.00	\$50,260.30	\$696,760.30
	Task 10. BIDDING PHASE SERVICES (To be included at a later date)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	<b>FEE SCHEDULE SUMMARY</b>	<b>\$1,253,502.50</b>	<b>\$33,024.00</b>	<b>\$46,720.00</b>	<b>\$0.00</b>	<b>\$50,260.30</b>	<b>\$1,383,506.80</b>
S W A 1  t o  W A 5	Description of Work or Task	JMT (57.9%)	SAM (11.2%)	STN (5.0%)	HVJ (17.2%)	H&H (8.8%)	Cost / Task Totals
	Task 1. PROJECT MANAGEMENT	\$89,145.00	\$0.00	\$33,098.95	\$0.00	\$0.00	\$122,243.95
	Task 2. ROUTE AND DESIGN STUDIES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 3. DRAINAGE STUDY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 4. PUBLIC INVOLVEMENT	\$54,540.00	\$0.00	\$0.00	\$0.00	\$0.00	\$54,540.00
	Task 5. RIGHT OF WAY (ROW) MAPPING	\$0.00	\$171,763.00	\$0.00	\$0.00	\$0.00	\$171,763.00
	Task 6. SURVEYING	\$0.00	\$48,717.00	\$0.00	\$0.00	\$0.00	\$48,717.00
	Task 7. ENVIRONMENTAL SERVICES	\$0.00	\$0.00	\$64,790.00	\$0.00	\$0.00	\$64,790.00
	Task 8. GEOTECHNICAL	\$0.00	\$0.00	\$0.00	\$338,176.50	\$0.00	\$338,176.50
	Task 9. PLAN PREPARATION (PS&E)	\$961,320.00	\$0.00	\$0.00	\$0.00	\$171,110.00	\$1,132,430.00
	Task 10. BIDDING PHASE SERVICES	\$37,060.00	\$0.00	\$0.00	\$0.00	\$1,890.00	\$38,950.00
	<b>FEE SCHEDULE SUMMARY</b>	<b>\$1,142,065.00</b>	<b>\$220,480.00</b>	<b>\$97,888.95</b>	<b>\$338,176.50</b>	<b>\$173,000.00</b>	<b>\$1,971,610.45</b>

## EXHIBIT D5-6 - FEE SCHEDULE

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

S W A 2  t o  W A 5	Description of Work or Task	JMT (77.8%)	SAM (3.6%)	STN (7.5%)	HVJ (4.5%)	H&H (6.5%)	Cost / Task Totals
	Task 1. PROJECT MANAGEMENT	\$137,395.92	\$0.00	\$940.60	\$0.00	\$0.00	\$138,336.52
	Task 2. ROUTE AND DESIGN STUDIES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 3. DRAINAGE STUDY	\$171,232.16	\$0.00	\$0.00	\$0.00	\$0.00	\$171,232.16
	Task 4. PUBLIC INVOLVEMENT	\$22,451.60	\$0.00	\$0.00	\$0.00	\$0.00	\$22,451.60
	Task 5. RIGHT OF WAY (ROW) MAPPING	\$17,673.96	\$36,148.00	\$0.00	\$0.00	\$0.00	\$53,821.96
	Task 6. SURVEYING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 7. ENVIRONMENTAL SERVICES	\$13,230.88	\$0.00	\$74,397.90	\$0.00	\$0.00	\$87,628.78
	Task 8. GEOTECHNICAL	\$0.00	\$0.00	\$0.00	\$45,334.04	\$0.00	\$45,334.04
	Task 9. PLAN PREPARATION (PS&E)	\$417,368.91	\$0.00	\$0.00	\$0.00	\$65,477.49	\$482,846.40
	Task 10. BIDDING PHASE SERVICES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	<b>FEE SCHEDULE SUMMARY</b>	<b>\$779,353.43</b>	<b>\$36,148.00</b>	<b>\$75,338.50</b>	<b>\$45,334.04</b>	<b>\$65,477.49</b>	<b>\$1,001,651.46</b>



## EXHIBIT D5-6 - FEE SCHEDULE

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

S W A 3  t o  W A 5	Description of Work or Task	JMT (22.8%)	SAM (1.9%)	STN (0.0%)	HVJ (0.0%)	H&H (0.2%)	Cost / Task Totals
	Task 1. PROJECT MANAGEMENT	\$14,468.63	\$0.00	\$0.00	\$0.00	\$0.00	\$14,468.63
	Task 2. ROUTE AND DESIGN STUDIES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 3. DRAINAGE STUDY	\$21,251.29	\$0.00	\$0.00	\$0.00	\$0.00	\$21,251.29
	Task 4. PUBLIC INVOLVEMENT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 5. RIGHT OF WAY (ROW) MAPPING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 6. SURVEYING	\$0.00	\$19,016.88	\$0.00	\$0.00	\$0.00	\$19,016.88
	Task 7. ENVIRONMENTAL SERVICES	\$7,673.50	\$0.00	\$0.00	\$0.00	\$0.00	\$7,673.50
	Task 8. GEOTECHNICAL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 9. PLAN PREPARATION (PS&E)	\$185,391.25	\$0.00	\$0.00	\$0.00	\$0.00	\$185,391.25
	Task 10. BIDDING PHASE SERVICES	\$0.00	\$0.00	\$0.00	\$0.00	\$2,190.66	\$2,190.66
	<b>FEE SCHEDULE SUMMARY</b>	<b>\$228,784.67</b>	<b>\$19,016.88</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$2,190.66</b>	<b>\$249,992.21</b>
S W A 6  t o  W A 5	Description of Work or Task	JMT (24.7%)	SAM (0.0%)	STN (7.2%)	HVJ (0.0%)	H&H (0.0%)	Cost / Task Totals
	Task 1. PROJECT MANAGEMENT	\$40,767.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,767.00
	Task 2. ROUTE AND DESIGN STUDIES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 3. DRAINAGE STUDY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 4. PUBLIC INVOLVEMENT	\$8,762.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,762.00
	Task 5. RIGHT OF WAY (ROW) MAPPING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 6. SURVEYING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 7. ENVIRONMENTAL SERVICES	\$0.00	\$0.00	\$72,604.00	\$0.00	\$0.00	\$72,604.00
	Task 8. GEOTECHNICAL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Task 9. PLAN PREPARATION (PS&E)	\$183,128.00	\$0.00	\$0.00	\$0.00	\$0.00	\$183,128.00
	Task 10. BIDDING PHASE SERVICES	\$14,564.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14,564.00
	<b>FEE SCHEDULE SUMMARY</b>	<b>\$247,221.00</b>	<b>\$0.00</b>	<b>\$72,604.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$319,825.00</b>
	<b>Supplemental Work Authorization 6</b>						
	Johnson, Mirmiran & Thompson, Inc.						\$247,221.00
	Stantec Consulting Services, Inc.						\$72,604.00
	<b>SWA6 to WA5 SUBTOTAL</b>						<b>\$319,825.00</b>
	<b>PROJECT TOTAL</b>						<b>\$4,996,418.71</b>

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

Description of Work or Task	Project Director \$278.48/Hr	Sr. Project Manager \$285.00/Hr	Senior Prof. 2 \$259.00/Hr	Senior Prof. 1 \$227.00/Hr	Prof. 2 / Sr. Eng. Tech \$194.00/Hr	Prof. 1 / Eng. Tech \$149.00/Hr	Admin / Clerical \$84.00/Hr	Staff-Hr. Totals	Staff Cost / Task Totals
<b>Task 1. PROJECT MANAGEMENT</b>									
<b>a. General Project Management</b>									
Subconsultant Supervision - (12 Mo.)			6					6	\$1,554.00
<b>b. Monthly Progress Reports, Invoices, and Billing</b>									
Progress Reports, Invoices, and Billing - (12 Mo.)		6					6	12	\$2,214.00
Project Correspondence - (2 Mo.)			12					12	\$3,108.00
<b>c. Quality Assurance / Quality Control (QA/QC) Plan</b>									
Submittal QA/QC - 3 submittals		3	12	24				39	\$9,411.00
<b>d. Project Coordination and Administration</b>									
Prepare and maintain records - (12 Mo.)			6				6	12	\$2,058.00
Correspondence and coordination with GEC - (12 Mo.)			6				6	12	\$2,058.00
Correspondence and coordination outside GEC - (12 Mo.)			6				6	12	\$2,058.00
<b>e. Progress / Coordination Meetings</b>									
Attend Monthly Meeting - (12 Mo.)		6	6	6			6	24	\$5,130.00
Prepare agenda and sign-in sheets for coordination meetings - (12 Mo.)			6					6	\$1,554.00
Prepare meeting minutes - (12 Mo.)			6				6	12	\$2,058.00
Internal coordination meetings - (12 Mo.)		6		6			6	18	\$3,576.00
<b>f. Stakeholder Coordination</b>									
Coordinate with local agencies and County's consultants								0	\$0.00
Attend stakeholder meetings								0	\$0.00
Prepare agenda and sign-in sheets for stakeholder coordination								0	\$0.00
Prepare meeting minutes								0	\$0.00
<b>g. Project Schedule</b>									
Maintain Project Schedule - (12 Mo.)			6	6				12	\$2,916.00
<b>h. Submittal Review Process</b>									
Attend comment resolution meetings - (2 Mtg.)		6		6				12	\$3,072.00
Direct Expenses									\$0.00
<b>PROJECT MANAGEMENT Subtotal:</b>	<b>0</b>	<b>27</b>	<b>72</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>42</b>	<b>189</b>	<b>\$40,767.00</b>
<b>Task 4. PUBLIC INVOLVEMENT</b>									
<b>a. Individual Property Owner Meeting Support (10 parcels/exhibits)</b>		2	8	24			8	42	\$8,762.00
<b>PUBLIC INVOLVEMENT Subtotal:</b>	<b>0</b>	<b>2</b>	<b>8</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>42</b>	<b>\$8,762.00</b>
<b>Task 9. Plan Preparation (PS&amp;E) - FM 1660</b>									
<b>a. Roadway Design/General PS&amp;E</b>									
Title Sheet		1		2	2	2		7	\$1,425.00
Index of Sheets					8			8	\$1,552.00
Project Layout		1		4	4			9	\$1,969.00
Typical Sections		1		8		4		13	\$2,697.00
General Notes				2	4	4		10	\$1,826.00
Construction Cost Estimate		1			4	8		13	\$2,253.00
Survey Control Data								0	\$0.00
Horizontal Alignment Data				4		4		8	\$1,504.00
Quantity Summary Sheets				4		12		16	\$2,696.00
Removal Layouts								0	\$0.00
Roadway Plan & Profiles		1		6	8	12		27	\$4,987.00
Cross Street / Intersection Layouts								0	\$0.00

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

Description of Work or Task	Project Director \$278.48/Hr	Sr. Project Manager \$285.00/Hr	Senior Prof. 2 \$259.00/Hr	Senior Prof. 1 \$227.00/Hr	Prof. 2 / Sr. Eng. Tech \$194.00/Hr	Prof. 1 / Eng. Tech \$149.00/Hr	Admin / Clerical \$84.00/Hr	Staff-Hr. Totals	Staff Cost / Task Totals
Driveway Details				6		16		22	\$3,746.00
Miscellaneous Roadway Details				2	2	2		6	\$1,140.00
Existing Utility Layouts								0	\$0.00
Existing Utility Coordination								0	\$0.00
Cross Sections / Cut and Fill Quantities			2	8		80		90	\$14,254.00
Standard Details				4		4		8	\$1,504.00
Submittal Preparation / Comment Responses (3 submittals)		4	8	40				52	\$12,292.00
<b>b. Traffic Control PS&amp;E</b>									
Traffic Control Plans (TCP)		1	8		40	96		145	\$24,421.00
Construction Schedule			4		16			20	\$4,140.00
<b>c. Signing and Pavement Marking PS&amp;E</b>									
Signing and Pavement Marking Layouts		1		8		40		49	\$8,061.00
Pavement Marking Details				1		8		9	\$1,419.00
Small Sign Details				1		8		9	\$1,419.00
<b>e. Drainage PS&amp;E</b>									
Drainage Area Maps		1	4			64		69	\$10,857.00
Culvert Layout Sheets		1	4			64		69	\$10,857.00
Hydraulic Data Sheets			4			64		68	\$10,572.00
Culvert Standards and Detail Sheets								0	\$0.00
Parallel Drainage Design Sheets		1	3			60		64	\$10,002.00
Storm Sewer Inlet Design								0	\$0.00
Grading Quantities and Design		1	2			20		23	\$3,783.00
Standard Details			1			12		13	\$2,047.00
Roadside Ditch & Channel Design		1	2			40		43	\$6,763.00
Hydraulic Data Ditches		1	2			40		43	\$6,763.00
Scour Report and Coordination with Structural Designers						4		4	\$596.00
<b>f Stormwater Pollution Prevention Plans (SW3P)</b>									
SWP3 Sheet			1		4			5	\$1,035.00
Temporary Erosion Control Layouts			1		8	64		73	\$11,347.00
Miscellaneous Erosion Control Details			1		2	4		7	\$1,243.00
<b>g. Traffic Signal Design (FM 1660)</b>									
Final PS&E									
General Notes, Standards and Quantities			1		4	8		13	\$2,227.00
Proposed Signal Layout			1		4	24		29	\$4,611.00
Signal Elevations			1		4	4		9	\$1,631.00
Electrical Wiring Details			1		4	8		13	\$2,227.00
Signal Phasing and Detection Schemes			1		4	4		9	\$1,631.00
ADA Ramps			1		4	4		9	\$1,631.00
<b>PLAN PREPARATION (PS&amp;E) Subtotal:</b>	<b>0</b>	<b>17</b>	<b>53</b>	<b>100</b>	<b>126</b>	<b>788</b>	<b>0</b>	<b>1084</b>	<b>\$183,128.00</b>
<b>Task 10. Bidding Phase Services</b>									
Specification List and Bid form		1	4		8	8		21	\$4,065.00
Pre-bid Meeting		1	1		1	1	1	5	\$971.00
Respond to Bidder's Question		1	4		8	8	2	23	\$4,233.00
Prepare Project Addenda		1	6		8	8	2	25	\$4,751.00
Bid Recommendation		1	1					2	\$544.00
<b>BIDDING PHASE SERVICES Subtotal:</b>		<b>5</b>	<b>16</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>5</b>	<b>76</b>	<b>\$14,564.00</b>
<b>Expenses:</b>									<b>\$0.00</b>

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

Description of Work or Task	Project Director \$278.48/Hr	Sr. Project Manager \$285.00/Hr	Senior Prof. 2 \$259.00/Hr	Senior Prof. 1 \$227.00/Hr	Prof. 2 / Sr. Eng. Tech \$194.00/Hr	Prof. 1 / Eng. Tech \$149.00/Hr	Admin / Clerical \$84.00/Hr	Staff-Hr. Totals	Staff Cost / Task Totals
JMT SUMMARY	0	46	133	172	126	788	50	1467	\$247,221.00

**Summary of Manhours by Classification**  
**Stantec Consulting Services, Inc.**  
**Southeast Loop Phase 2**

Description of Work or Task	Sr. ENV Scientist II	Sr. ENV Scientist I	ENV Professional II	ENV Professional I	ENV Staff III	ENV Staff II	ENV Staff I	ENV Tech II	ENV Tech I	Staff-Hr.	Staff Cost / Task
	\$194.00/Hr	\$168.00/Hr	\$143.00/Hr	\$123.00/Hr	\$110.00/Hr	\$97.00/Hr	\$84.00/Hr	\$71.00/Hr	\$58.00/Hr	Totals	Totals
<b>Task 7. ENVIRONMENTAL SERVICES</b>											
a. Hero documentation and management	10	80					4			94	\$15,716.00
b. History	10			12						22	\$3,416.00
c. Archeology	2	8								10	\$1,732.00
d. Socioec & EJ	10			8	48					66	\$8,204.00
e. Noise	82									82	\$15,908.00
f. Water & Wetlands	2			4		8				14	\$1,656.00
g. Natural Resources (Farmlands, etc)	2	2		8		8				20	\$2,484.00
h. HazMat	2			28						30	\$3,832.00
i. Climate & GHG	2	12		2						16	\$2,650.00
j. Other HUD Categories	2	16		8		24				50	\$6,388.00
k. Comment Response & RROF	2	16		2						20	\$3,322.00
l. USACE Permit & USACE Coordination	8		12	12		16				48	\$6,296.00
<b>Environmental Services Subtotal:</b>	<b>134</b>	<b>134</b>	<b>12</b>	<b>84</b>	<b>48</b>	<b>56</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>472</b>	<b>\$71,604.00</b>
<b>Expenses</b>											<b>\$1,000.00</b>
<b>Stantec Consulting Services SUMMARY</b>	<b>134</b>	<b>134</b>	<b>12</b>	<b>84</b>	<b>48</b>	<b>56</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>472</b>	<b>\$72,604.00</b>

**Summary of Direct Expenses  
Stantec Consulting Services, Inc.  
Southeast Loop Phase 2**

Item Description	Unit	Quantity	Unit Cost	Total Cost
<b>Direct Expenses</b>				
I. Hazardous Materials Database Search	Per Search	1	\$1,000.00	<b>\$1,000.00</b>
<b>Stantec Consulting Services, Inc. Total Direct Expenses</b>				<b>\$1,000.00</b>