

**SUPPLEMENTAL WORK AUTHORIZATION NO. 1  
TO  
WORK AUTHORIZATION NO. 1**

**WILLIAMSON COUNTY ROAD BOND PROJECT:  
Liberty Hill Bypass West (Segment 1)**

This Supplemental Work Authorization No. 1 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated March 19, 2024 (“Contract”) and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and HDR Engineering, Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective March 22, 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:

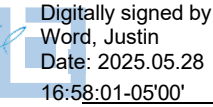
- I. The Services to be Provided by the County that were set out in the original Attachment “A” of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment “A-1” (must be attached).
- II. The Services to be Provided by the Engineer that were set out in the original Attachment “B” of the Work Authorization are hereby amended as shown in the Attachment “B-1” (must be attached).
- III. The Work Schedule is shown in the Attachment “C-1” (must be attached).
- IV. The maximum amount payable for services under the Work Authorization is hereby increased from \$4,220,943.50 to \$4,284,945.29 as shown in the Attachment “D-1” (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:**  
**HDR Engineering, Inc.**

By:    
Signature

Justin Word  
Printed Name

Senior Vice President  
Title

05/28/2025  
Date

**COUNTY:**  
**Williamson County, Texas**

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

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

#### LIST OF ATTACHMENTS

- Attachment A-1 – Services to be provided by the County
- Attachment B-1 – Services to be provided by the Engineer
- Attachment C-1 – Work Schedule
- Attachment D-1 – Fee Schedule

**APPROVED**  
*By Christen Eschberger at 8:36 am, May 29, 2025*

ATTACHMENT A-1  
SERVICES TO BE PROVIDED BY THE COUNTY  
FOR LIBERTY HILL BYPASS WEST

Supplemental No. 1 to Work Authorization No. 1:  
Traffic Volumes and ICE Analysis

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

1. Provide the following information used to perform previous corridor analysis, as documented in December 31, 2024, memorandum from Mike Chaney to Kate Wilder, RE: Pavement Data: Liberty Hill Bypass West, from SH 29 to RM 1869:
  - a. CAMPO 2020 Travel Demand Model (Wilco refined version)
  - b. Available traffic counts conducted by Wilco
  - c. All other previous traffic data and reports from ATG pertaining to this project.

ATTACHMENT B-1  
SERVICES TO BE PROVIDED BY THE ENGINEER FOR  
LIBERTY HILL BYPASS WEST

Supplemental No. 1 to Work Authorization No. 1:  
Traffic Volumes and ICE Analysis

This supplemental is to provide additional engineering services for developing forecasted traffic volumes for signal warrant analysis and performing Intersection Control Evaluation (ICE) analysis for two proposed intersections (Proposed Liberty Hill Bypass West at SH 29 and RM 1869) for the Interim Year 2028 traffic conditions.

TRAFFIC FORECASTS & INTERSECTION CONTROL EVALUATION:

1. Collect 24-hour counts, aggregated at 15-minute intervals, on a single work weekday along SH 29 and along RM 1869 near the vicinity of the proposed Liberty Hill Bypass to obtain traffic distributions.
2. Review, modify and run CAMPO 2020 travel demand model (Wilco refined version) to reflect project interim Year 2028 geometric conditions.
3. Based on existing field counts and CAMPO model outputs, summarize model link results by analysis period for incorporation into signal warrant analysis. Generate intersection turning movement forecasts for interim Year 2028 daily, a.m. peak hour, and p.m. peak hour for incorporation into intersection analysis. Analysis locations are limited to the future intersections of Liberty Hill Bypass (interim configuration) with SH 29 and RM 1869.
4. Conduct intersection control evaluation (ICE), consisting of the following steps:
  - a. Using interim Year 2028 daily, a.m. peak hour, and p.m. peak hour forecasts, screen potential alternatives using CAP-X and SPICE spreadsheet tools (ICE Stage 1).
  - b. If necessary, code short-listed alternative(s) in *Synchro* (ICE Stage 2) using interim Year 2028 a.m. and p.m. peak hour traffic forecasts. Conduct safety analysis using high-level qualitative methods (e.g., crash modification factors).
  - c. Summarize ICE results in a memorandum (draft and final versions).
  - d. Present results and coordinate with TxDOT. Four (4) meetings are assumed.

## DELIVERABLES

- a. 24-hour traffic counts (2025)
- b. Year 2028 daily, a.m. peak hour and p.m. peak hour forecasts
- c. Draft and Final ICE Analysis Memo

## **ATTACHMENT C-1 – Work Schedule**

### **Supplemental Work Authorization No. 1 Liberty Hill Bypass West Segment 1 Traffic Volumes and ICE Analysis**

| <b>TASK</b>                                                     | <b>START</b>     | <b>END</b>      |
|-----------------------------------------------------------------|------------------|-----------------|
|                                                                 |                  |                 |
| <b>1. Effective Date WA #1</b>                                  | <b>3/19/2024</b> |                 |
| <b>2. 24-hour Traffic Counts</b>                                | <b>5/8/2025</b>  | <b>5/8/2025</b> |
| <b>3. Traffic Forecasts</b>                                     | <b>6/3/2025</b>  | <b>7/1/2025</b> |
| <b>4. Intersection Control Evaluation Analysis<br/>and Memo</b> | <b>7/1/2025</b>  | <b>8/5/2025</b> |

ATTACHMENT D-1  
FEE SCHEDULE  
HDR ENGINEERING, INC.

| TASK                                                | HDR Engineering, Inc. | GRAM     | TOTALS      |
|-----------------------------------------------------|-----------------------|----------|-------------|
| Traffic Forecasts & Intersection Control Evaluation | \$63,110.00           | \$116.79 | \$63,226.79 |
|                                                     |                       |          |             |
| SUBTOTALS - LABOR                                   | \$63,110.00           | \$116.79 | \$63,226.79 |
| DIRECT EXPENSES                                     | \$70.00               | \$705.00 | \$775.00    |
| TOTALS                                              | \$63,180.00           | \$821.79 | \$64,001.79 |

HDR

| TASK DESCRIPTION                                               | Principal-In-Charge | Project Manager | Senior QC Reviewer | Senior Traffic Engineer | Traffic Engineer II | Traffic EIT (Senior) | Senior CADD Tech | TOTAL LABOR HOURS & COSTS |
|----------------------------------------------------------------|---------------------|-----------------|--------------------|-------------------------|---------------------|----------------------|------------------|---------------------------|
| <b>Traffic Forecasts &amp; Intersection Control Evaluation</b> |                     |                 |                    |                         |                     |                      |                  |                           |
| 1. Collect 24-hour counts                                      |                     |                 |                    |                         |                     | 4                    |                  | 4                         |
| 2. Modify CAMPO TDM                                            |                     |                 | 2                  | 4                       | 8                   | 16                   |                  | 30                        |
| 3. Summarize link and turning movement forecasts               |                     | 1               | 4                  | 4                       | 8                   | 20                   | 8                | 45                        |
| 4. Conduct ICE                                                 |                     |                 |                    |                         |                     |                      |                  |                           |
| a. Screen alternatives (Stage 1)                               |                     |                 | 4                  | 16                      | 32                  | 50                   |                  | 102                       |
| b. Code short-listed alternatives (Stage 2)                    |                     |                 | 4                  | 8                       | 24                  | 32                   |                  | 68                        |
| c. Summarize ICE in memo                                       |                     | 1               | 2                  | 8                       | 12                  | 16                   | 16               | 55                        |
| d. Meet with TxDOT                                             |                     | 4               |                    | 4                       |                     |                      |                  | 8                         |
|                                                                |                     |                 |                    |                         |                     |                      |                  |                           |
| HOURS SUB-TOTALS                                               | 0                   | 6               | 16                 | 44                      | 84                  | 138                  | 24               | 312                       |
| CONTRACT RATE PER HOUR                                         | \$398.00            | \$341.00        | \$342.00           | \$295.00                | \$223.00            | \$140.00             | \$190.00         |                           |
| TOTAL LABOR COSTS                                              | \$0.00              | \$2,046.00      | \$5,472.00         | \$12,980.00             | \$18,732.00         | \$19,320.00          | \$4,560.00       | \$63,110.00               |
| % DISTRIBUTION OF STAFFING                                     | 0.0%                | 1.9%            | 5.1%               | 14.1%                   | 26.9%               | 44.2%                | 7.7%             |                           |
|                                                                |                     |                 |                    |                         |                     |                      |                  |                           |
| <b>SUBTOTAL (11. Plan Preparation)</b>                         |                     |                 |                    |                         |                     |                      |                  | <b>\$63,110.00</b>        |

| Total Labor                                         |      |      |       |       |       |        |       | TOTAL HOURS |
|-----------------------------------------------------|------|------|-------|-------|-------|--------|-------|-------------|
|                                                     |      |      |       |       |       |        |       |             |
| Traffic Forecasts & Intersection Control Evaluation | 0.00 | 6.00 | 16.00 | 44.00 | 84.00 | 138.00 | 24.00 | 312.00      |
|                                                     |      |      |       |       |       |        |       |             |

|                            |      |      |       |       |       |        |       |               |
|----------------------------|------|------|-------|-------|-------|--------|-------|---------------|
| HOURS SUB-TOTALS           | 0.00 | 6.00 | 16.00 | 44.00 | 84.00 | 138.00 | 24.00 | 312.00        |
| % DISTRIBUTION OF STAFFING | 0.0% | 1.9% | 5.1%  | 14.1% | 26.9% | 44.2%  | 7.7%  | 100.0%        |
|                            |      |      |       |       |       |        |       |               |
| <b>TOTAL LABOR</b>         |      |      |       |       |       |        |       | <b>312.00</b> |

| Total Labor Expenses                                |        |            |            |             |             |             |            | TOTAL COSTS |
|-----------------------------------------------------|--------|------------|------------|-------------|-------------|-------------|------------|-------------|
|                                                     |        |            |            |             |             |             |            |             |
| Traffic Forecasts & Intersection Control Evaluation | \$0.00 | \$2,046.00 | \$5,472.00 | \$12,980.00 | \$18,732.00 | \$19,320.00 | \$4,560.00 | \$63,110.00 |
|                                                     |        |            |            |             |             |             |            |             |

|                             |        |            |            |             |             |             |            |                    |
|-----------------------------|--------|------------|------------|-------------|-------------|-------------|------------|--------------------|
| HOURS SUB-TOTALS            | \$0.00 | \$2,046.00 | \$5,472.00 | \$12,980.00 | \$18,732.00 | \$19,320.00 | \$4,560.00 | \$63,110.00        |
| % DISTRIBUTION OF STAFFING  | 0.0%   | 3.2%       | 8.7%       | 20.6%       | 29.7%       | 30.6%       | 7.2%       | 100.0%             |
|                             |        |            |            |             |             |             |            |                    |
| <b>TOTAL LABOR EXPENSES</b> |        |            |            |             |             |             |            | <b>\$63,110.00</b> |

| DIRECT EXPENSES                 | UNIT | # OF UNITS | COST/UNIT |  |  |  |  |                |
|---------------------------------|------|------------|-----------|--|--|--|--|----------------|
| Mileage (per mile)              | mile | 100        | \$0.70    |  |  |  |  | \$70.00        |
|                                 |      |            |           |  |  |  |  |                |
| <b>SUBTOTAL DIRECT EXPENSES</b> |      |            |           |  |  |  |  | <b>\$70.00</b> |

|                                                   |                    |
|---------------------------------------------------|--------------------|
| <b>SUMMARY</b>                                    |                    |
| TOTAL COSTS FOR PRIME ONLY                        | \$63,110.00        |
| NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY | \$70.00            |
| TOTAL COSTS FOR GRAM (DATA COLLECTION)            | \$821.79           |
| <b>GRAND TOTAL</b>                                | <b>\$64,001.79</b> |

GRAM

| TASK DESCRIPTION                                               | Project Manager | Sr. QC Reviewer | Admin/Clerical | TOTAL<br>LABOR HOURS<br>& COSTS |
|----------------------------------------------------------------|-----------------|-----------------|----------------|---------------------------------|
| <b>Traffic Forecasts &amp; Intersection Control Evaluation</b> |                 |                 |                |                                 |
| 1. Collect 24-hour counts                                      | 1               |                 |                | 1                               |
|                                                                |                 |                 |                |                                 |
| HOURS SUB-TOTALS                                               | 1               | 0               | 0              | 1                               |
| CONTRACT RATE PER HOUR                                         | \$116.79        | \$92.07         | \$106.56       |                                 |
| TOTAL LABOR COSTS                                              | \$116.79        | \$0.00          | \$0.00         | \$116.79                        |
| % DISTRIBUTION OF STAFFING                                     | 100.0%          | 0.0%            | 0.0%           |                                 |
|                                                                |                 |                 |                |                                 |
| <b>SUBTOTAL (11. Plan Preparation)</b>                         |                 |                 |                | <b>\$116.79</b>                 |

| Total Labor                                         |      |      |      | TOTAL HOURS |
|-----------------------------------------------------|------|------|------|-------------|
|                                                     |      |      |      |             |
| Traffic Forecasts & Intersection Control Evaluation | 1.00 | 0.00 | 0.00 | 1.00        |
|                                                     |      |      |      |             |

|                            |        |      |      |             |
|----------------------------|--------|------|------|-------------|
| HOURS SUB-TOTALS           | 1.00   | 0.00 | 0.00 | 1.00        |
| % DISTRIBUTION OF STAFFING | 100.0% | 0.0% | 0.0% | 100.0%      |
|                            |        |      |      |             |
| <b>TOTAL LABOR</b>         |        |      |      | <b>1.00</b> |

| Total Labor Expenses                                |          |        |        | TOTAL COSTS |
|-----------------------------------------------------|----------|--------|--------|-------------|
|                                                     |          |        |        |             |
| Traffic Forecasts & Intersection Control Evaluation | \$116.79 | \$0.00 | \$0.00 | \$116.79    |
|                                                     |          |        |        |             |

|                             |          |        |        |                 |
|-----------------------------|----------|--------|--------|-----------------|
| HOURS SUB-TOTALS            | \$116.79 | \$0.00 | \$0.00 | \$116.79        |
| % DISTRIBUTION OF STAFFING  | 100.0%   | 0.0%   | 0.0%   | 100.0%          |
|                             |          |        |        |                 |
| <b>TOTAL LABOR EXPENSES</b> |          |        |        | <b>\$116.79</b> |

| DIRECT EXPENSES                 | UNIT     | # OF UNITS | COST/UNIT |                 |
|---------------------------------|----------|------------|-----------|-----------------|
| Mileage (per mile)              | mile     | 150        | \$0.70    | \$105.00        |
| 24-Hour Volume Counts           | lump sum | 1          | \$600.00  | \$600.00        |
| <b>SUBTOTAL DIRECT EXPENSES</b> |          |            |           | <b>\$705.00</b> |

|                                        |                 |
|----------------------------------------|-----------------|
| <b>SUMMARY</b>                         |                 |
| TOTAL COSTS FOR GRAM (DATA COLLECTION) | \$821.79        |
| <b>GRAND TOTAL</b>                     | <b>\$821.79</b> |

