

**WORK AUTHORIZATION NO. 2**  
**PROJECT: BEST FIT ROADWAY CENTERLINE ALIGNMENT VARIOUS COUNTY**  
**ROADS THROUGHOUT WILLIAMSON COUNTY**

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Surveying 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 **Diamond Surveying, Inc.** (the "Surveyor").

Part 1. The Surveyor will provide the following Surveying 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 **\$118,900.00**.

Part 3. Payment to the Surveyor 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, 2026**. The Surveying 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. Surveyor 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 Surveyor 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 Surveyor.

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

EXECUTED Apr 10, 2024

SURVEYOR:

Diamond Surveying, Inc.


COUNTY:

Williamson County, Texas

By:   
Signature

Shane Shafer  
Printed Name

President  
Title

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 Surveyor

Attachment C - Work Schedule

Attachment D - Fee Schedule

### Attachment A - Services to be Provided by County

Williamson County will provide a Project Manager and will provide timely reviews and decisions necessary to enable the Surveyor to maintain an agreed upon project schedule.

## Attachment B - Services to be Provided by Surveyor

- A. Perform office and field work necessary to establish survey control points - set approximately two (2) to six (6) pairs of survey control points along the route for each County Road.
- B. Perform office and fieldwork necessary to locate and tie approximate center of asphalt roadways every 100' along tangents and approximately every 25' along curves of roadways and at horizontal PI's. PC's and PT's. (This is not a right-of-way survey or verification only an existing roadway survey).
- C. Create a baseline with stationing for approximate center of existing roadway and survey control data sheets. Prepare ten (10) separate signed and sealed paper plots on 11x17 sheets showing location of the survey control points and referenced to the baseline for each County Road, to include sending electronic CADD files with survey data in format as listed below. (Does not include Surveyor setting points (I.E., nails) in asphalt along the Baseline). List of County Roads as follows:

### In MicroStation

- 1) CR 100 from Chandler Rd to CR 105, approximately 11, 227'
- 2) CR 237 from Ronald Reagan Blvd to CR 216, approximately 8,919'
- 2a) CR 200 from CR 203 to CR 236, approximately 12,384'

### In AutoCAD

- 3) CR 107 from CR 100 to CR 107 Spur, approximately 5,232'
- 4) CR 139 from CR 137 to Rowe Ln, approximately 11,672'
- 4a) CR 149 from CR 140 to FM 1105, approximately 8,165'
- 5) CR 241 from CR 245 to SH 195, approximately 9,136'
- 6) CR 288 from RM 1869 to the County Line, approximately 8,210'
- 7) CR 289 from CR 255 to Ronald Reagan Blvd, approximately 7,304'
- 8) CR 281 from CR 282 to 10,994' East of CR 282, from 2,952' West of CR 279 to CR 279, approximately 13,946'

**For an approximate total of 96,195 linear feet.**

### Attachment C - Work Schedule

Diamond Surveying, Inc. anticipates it will take seven (7) to twelve (12) working days for each County Road. Diamond Surveying will send each County Road as completed. Diamond Surveying will begin work immediately upon receipt of executed agreement.

Basis of Estimate for items listed in Attachment B  
Attachment D - Fee Schedule

1. CR 100 from Chandler Rd to CR 105, approximately 11, 227'

A. Perform office and fieldwork to establish survey control.

FIELD: 2-MAN FIELD PARTY - 12 hours @ \$170.00 per hour = \$2,040.00

OFFICE: SR CADD TECH – 2 hours @ \$135.00 per hour = \$270.00

B. Perform office and fieldwork to tie approximate center of asphalt roadway.

FIELD: 2-MAN FIELD PARTY - 24 hours @ \$170.00 per hour = \$4,080.00

OFFICE: SR CADD TECH – 12 hours @ \$135.00 per hour = \$1,620.00

PROJECT MANAGER – 4 hours @ \$150.00 per hour = \$600.00

C. Perform office work necessary to create baseline with stationing and survey control data sheets Prepare signed and sealed paper plots.

OFFICE: SR CADD TECH – 24 hours @ \$135.00 per hour = \$3,240.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

R.P.L.S. - 2 hours @ \$170.00 per hour = \$340.00

**Estimated Fee for Item 1: CR 100 = \$12,490.00**

2. CR 237 from Ronald Reagan Blvd to CR 216, approximately 8,919'

A. Perform office and fieldwork to establish survey control.

FIELD: 2-MAN FIELD PARTY - 8 hours @ \$170.00 per hour = \$1,360.00

OFFICE: SR CADD TECH – 2 hours @ \$135.00 per hour = \$270.00

B. Perform office and fieldwork to tie approximate center of asphalt roadway.

FIELD: 2-MAN FIELD PARTY - 20 hours @ \$170.00 per hour = \$3,400.00

OFFICE: SR CADD TECH – 10 hours @ \$135.00 per hour = \$1,350.00

PROJECT MANAGER – 3 hours @ \$150.00 per hour = \$450.00

C. Perform office work necessary to create baseline with stationing and survey control data sheets Prepare signed and sealed paper plots.

OFFICE: SR CADD TECH – 24 hours @ \$135.00 per hour = \$3,240.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

R.P.L.S. - 2 hours @ \$170.00 per hour = \$340.00

**Estimated Fee for Item 2: CR 237 = \$10,710.00**

2A. CR 200 from CR 203 to CR 236, approximately 12,384'

A. Perform office and fieldwork to establish survey control.

FIELD: 2-MAN FIELD PARTY - 12 hours @ \$170.00 per hour = \$2,040.00

OFFICE: SR CADD TECH – 2 hours @ \$135.00 per hour = \$270.00

B. Perform office and fieldwork to tie approximate center of asphalt roadway.

FIELD: 2-MAN FIELD PARTY - 28 hours @ \$170.00 per hour = \$4,760.00

OFFICE: SR CADD TECH – 16 hours @ \$135.00 per hour = \$2,160.00

PROJECT MANAGER – 4 hours @ \$150.00 per hour = \$600.00

C. Perform office work necessary to create baseline with stationing and survey control data sheets Prepare signed and sealed paper plots.

OFFICE: SR CADD TECH – 32 hours @ \$135.00 per hour = \$4,320.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

R.P.L.S. - 2 hours @ \$170.00 per hour = \$340.00

**Estimated Fee for Item 2A: CR 200 = \$14,790.00**

Basis of Estimate for items listed in Attachment B  
Attachment D (Continued) - Fee Schedule

3. CR 107 from CR 100 to CR 107 Spur, approximately 5,232'

A. Perform office and fieldwork to establish survey control.

FIELD: 2-MAN FIELD PARTY - 6 hours @ \$170.00 per hour = \$1,020.00

OFFICE: SR CADD TECH – 2 hours @ \$135.00 per hour = \$270.00

B. Perform office and fieldwork to tie approximate center of asphalt roadway.

FIELD: 2-MAN FIELD PARTY - 12 hours @ \$170.00 per hour = \$2,040.00

OFFICE: SR CADD TECH – 8 hours @ \$135.00 per hour = \$1,080.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

C. Perform office work necessary to create baseline with stationing and survey control data sheets Prepare signed and sealed paper plots.

OFFICE: SR CADD TECH – 16 hours @ \$135.00 per hour = \$2,160.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

R.P.L.S. - 2 hours @ \$170.00 per hour = \$340.00

**Estimated Fee for Item 3: CR 107 = \$7,510.00**

4. CR 139 from CR 137 to Rowe Ln, approximately 11,672'

A. Perform office and fieldwork to establish survey control.

FIELD: 2-MAN FIELD PARTY - 12 hours @ \$170.00 per hour = \$2,040.00

OFFICE: SR CADD TECH – 2 hours @ \$135.00 per hour = \$270.00

B. Perform office and fieldwork to tie approximate center of asphalt roadway.

FIELD: 2-MAN FIELD PARTY - 28 hours @ \$170.00 per hour = \$4,760.00

OFFICE: SR CADD TECH – 16 hours @ \$135.00 per hour = \$2,160.00

PROJECT MANAGER – 4 hours @ \$150.00 per hour = \$600.00

C. Perform office work necessary to create baseline with stationing and survey control data sheets Prepare signed and sealed paper plots.

OFFICE: SR CADD TECH – 32 hours @ \$135.00 per hour = \$4,320.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

R.P.L.S. - 2 hours @ \$170.00 per hour = \$340.00

**Estimated Fee for Item 4: CR 139 = \$14,790.00**

4A. CR 149 from CR 140 to FM 1105, approximately 8,165'

A. Perform office and fieldwork to establish survey control.

FIELD: 2-MAN FIELD PARTY - 8 hours @ \$170.00 per hour = \$1,360.00

OFFICE: SR CADD TECH – 2 hours @ \$135.00 per hour = \$270.00

B. Perform office and fieldwork to tie approximate center of asphalt roadway.

FIELD: 2-MAN FIELD PARTY - 16 hours @ \$170.00 per hour = \$2,720.00

OFFICE: SR CADD TECH – 12 hours @ \$135.00 per hour = \$1,620.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

C. Perform office work necessary to create baseline with stationing and survey control data sheets Prepare signed and sealed paper plots.

OFFICE: SR CADD TECH – 20 hours @ \$135.00 per hour = \$2,700.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

R.P.L.S. - 2 hours @ \$170.00 per hour = \$340.00

**Estimated Fee for Item 4A: CR 149 = \$9,610.00**

Basis of Estimate for items listed in Attachment B  
Attachment D (Continued) - Fee Schedule

5. CR 241 from CR 245 to SH 195, approximately 9,136'

A. Perform office and fieldwork to establish survey control.

FIELD: 2-MAN FIELD PARTY - 6 hours @ \$170.00 per hour = \$1,020.00

OFFICE: SR CADD TECH – 2 hours @ \$135.00 per hour = \$270.00

B. Perform office and fieldwork to tie approximate center of asphalt roadway.

FIELD: 2-MAN FIELD PARTY - 20 hours @ \$170.00 per hour = \$3,400.00

OFFICE: SR CADD TECH – 10 hours @ \$135.00 per hour = \$1,350.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

C. Perform office work necessary to create baseline with stationing and survey control data sheets Prepare signed and sealed paper plots.

OFFICE: SR CADD TECH – 24 hours @ \$135.00 per hour = \$3,240.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

R.P.L.S. - 2 hours @ \$170.00 per hour = \$340.00

**Estimated Fee for Item 5: CR 107 = \$10,220.00**

6. CR 288 from RM 1869 to the County Line, approximately 8,210'

A. Perform office and fieldwork to establish survey control.

FIELD: 2-MAN FIELD PARTY - 6 hours @ \$170.00 per hour = \$1,020.00

OFFICE: SR CADD TECH – 2 hours @ \$135.00 per hour = \$270.00

B. Perform office and fieldwork to tie approximate center of asphalt roadway.

FIELD: 2-MAN FIELD PARTY - 20 hours @ \$170.00 per hour = \$3,400.00

OFFICE: SR CADD TECH – 10 hours @ \$135.00 per hour = \$1,350.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

C. Perform office work necessary to create baseline with stationing and survey control data sheets Prepare signed and sealed paper plots.

OFFICE: SR CADD TECH – 24 hours @ \$135.00 per hour = \$3,240.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

R.P.L.S. - 2 hours @ \$170.00 per hour = \$340.00

**Estimated Fee for Item 6: CR 288 = \$10,220.00**

7. CR 289 from CR 255 to Ronald Reagan Blvd, approximately 7,304'

A. Perform office and fieldwork to establish survey control.

FIELD: 2-MAN FIELD PARTY - 6 hours @ \$170.00 per hour = \$1,020.00

OFFICE: SR CADD TECH – 2 hours @ \$135.00 per hour = \$270.00

B. Perform office and fieldwork to tie approximate center of asphalt roadway.

FIELD: 2-MAN FIELD PARTY - 20 hours @ \$170.00 per hour = \$3,400.00

OFFICE: SR CADD TECH – 16 hours @ \$135.00 per hour = \$2,160.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

C. Perform office work necessary to create baseline with stationing and survey control data sheets Prepare signed and sealed paper plots.

OFFICE: SR CADD TECH – 24 hours @ \$135.00 per hour = \$3,240.00

PROJECT MANAGER – 2 hours @ \$150.00 per hour = \$300.00

R.P.L.S. - 2 hours @ \$170.00 per hour = \$340.00

**Estimated Fee for Item 7: CR 289 = \$11,030.00**



Basis of Estimate for items listed in Attachment B  
Attachment D (Continued) - Fee Schedule

8. CR 281 from CR 282 to 10,994' East of CR 282, from 2,952' West of CR 279 to CR 279, approximately 13,946'

A. Perform office and fieldwork to establish survey control.

FIELD: 2-MAN FIELD PARTY - 12 hours @ \$170.00 per hour = \$2,040.00

OFFICE: SR CADD TECH – 2 hours @ \$135.00 per hour = \$270.00

B. Perform office and fieldwork to tie approximate center of asphalt roadway.

FIELD: 2-MAN FIELD PARTY - 36 hours @ \$170.00 per hour = \$6,120.00

OFFICE: SR CADD TECH – 20 hours @ \$135.00 per hour = \$2,700.00

PROJECT MANAGER – 4 hours @ \$150.00 per hour = \$600.00

C. Perform office work necessary to create baseline with stationing and survey control data sheets Prepare signed and sealed paper plots.

OFFICE: SR CADD TECH – 36 hours @ \$135.00 per hour = \$4,860.00

PROJECT MANAGER – 4 hours @ \$150.00 per hour = \$600.00

R.P.L.S. - 2 hours @ \$170.00 per hour = \$340.00

**Estimated Fee for Item 8: CR 281 = \$17,530.00**

**SUMMARY OF FEES:**

Estimated Fee for Item 1: CR 100 = \$12,490.00

Estimated Fee for Item 2: CR 237 = \$10,710.00

Estimated Fee for Item 2A: CR 200 = \$14,790.00

Estimated Fee for Item 3: CR 107 = \$7,510.00

Estimated Fee for Item 4: CR 139 = \$14,790.00

Estimated Fee for Item 4A: CR 149 = \$9,610.00

Estimated Fee for Item 5: CR 107 = \$10,220.00

Estimated Fee for Item 6: CR 288 = \$10,220.00

Estimated Fee for Item 7: CR 289 = \$11,030.00

Estimated Fee for Item 8: CR 281 = \$17,530.00

**TOTAL ESTIMATED FEE: \$118,900.00**