

**EXHIBIT “D”**  
**HIDALGO COUNTY**  
**Agreement #C-22-0316-05-17**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 1**

**THIS WORK AUTHORIZATION** is made pursuant to the terms and conditions of Section 7 of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner’s Court**, hereinafter called the “**Owner**,” and, **TERRACON CONSULTANTS, INC.**, hereinafter called “**Engineer**”.

**PART 1. SCOPE OF WORK**

The purpose of this Work Authorization is for the Engineer to provide construction material testing services for the Pct 2 Minnesota Road from Raul Longoria to Cesar Chavez Rd Project.

The **Engineer** is to provide the Services as required by the Agreement with Owner for Geo-Technical & Construction Material Testing Services. This includes but is not limited to the services identified in **EXHIBIT “A” – Scope of Services to be provided by the Engineer** which is attached hereto and incorporated by reference.

**PART 2. ESTIMATED COST**

The estimated cost for services under this Work Authorization is **\$4,545.00**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT “B”**.

**PART 3. PAYMENT**

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the On-Call Services Agreement between Owner and Engineer.

**PART 4. FUNDING**

This Work Authorization No. 1 shall be funded through funding source:

Account No. \_ \_ \_ \_ \_ - \_ \_ \_ \_ \_ - \_ \_ \_ \_ \_ - \_ \_ \_ \_ \_

Requisition Number \_\_\_\_\_ (**MUST BE INCLUDED AFTER CC APPROVAL**)

**PART 5. PERIOD OF SERVICE**

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate upon completion of the scope of work provided in this work authorization or (DATE).

**PART 6. RESPONSIBILITIES AND OBLIGATIONS**

This Authorization does not waive the parties’ responsibilities and obligations provided under the **Agreement**.

**PART 7. ACKNOWLEDGEMENT AND CONFIRMATION**

Acknowledgement and confirmation by Hidalgo County Precinct No. 2 Commissioner Eduardo Cantu, as to content and detail of this **Work Authorization No. 1.**

**HIDALGO COUNTY  
COMMISSIONER PRECINCT NO. 2:**

BY: \_\_\_\_\_

**PART 8. ACCEPTANCE AND APPROVAL**

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on \_\_\_\_\_ as indicated below and effective as of \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

**THE ENGINEER:**  
TERRACON CONSULTANTS, INC.

**THE OWNER:**  
HIDALGO COUNTY

\_\_\_\_\_  
**By: Jorge A. Flores, P.G.**

\_\_\_\_\_  
**By: Richard F. Cortez, County Judge**

**ATTEST:**

\_\_\_\_\_  
**By: Arturo Guajardo Jr., County Clerk**

# EXHIBIT "A"

## SCOPE OF SERVICES TO BE PROVIDED BY ENGINEER

The services to be provided by the ENGINEER in providing On-Call Geotechnical and Construction Material Testing Services for Hidalgo County Precinct 2 Projects, are as follows:

### A. Preliminary Phase:

- 1) Attend preliminary conferences with the OWNER and, if requested, with the funding agency and other government agencies or interested parties regarding the Project.
- 2) Provide for the necessary geotechnical investigation and testing necessary to develop design.
- 3) Provide environmental studies as may be necessary to complete a project.
- 4) Provide assistance to the OWNER in providing material requirements and specifications for design, construction and maintenance projects.
- 5) Provide assistance to the OWNER in providing pavement design recommendations for the design, construction and maintenance projects.
- 6) Provide assistance to the OWNER in providing pavement rehabilitation recommendations for the design, and maintenance projects.
- 7) Provide assistance to the OWNER in providing pavement condition studies.

### B. Design Phase:

- 1) Attend the OWNER'S and respective Party's meeting as requested for the purpose of explaining geotechnical investigation report recommendations and preliminary testing results and their impact to proposed design activities.
- 2) Perform any additional geotechnical investigations, testing and environmental studies necessary to collect information required in the design of the Project.
- 3) Provide assistance to the OWNER in providing material requirements and specifications for design, construction and maintenance projects.
- 4) Provide assistance to the OWNER in providing pavement design recommendations for the design, construction and maintenance projects.
- 5) Provide assistance to the OWNER in providing pavement rehabilitation recommendation for the design, construction and maintenance projects.
- 6) Provide assistance to the OWNER in providing pavement condition studies.
- 7) Furnish the OWNER all necessary report for preliminary design, design, and construction and maintenance projects.

### C. Construction/Maintenance Phase:

- 1) Attend the OWNER'S and respective Party's pre-construction and construction meetings as requested for the purpose of explaining geotechnical investigation report recommendation and preliminary testing results and their impact to proposed construction activities and establish coordination and lines of communication for proposed construction materials testing during construction activities.
- 2) Consult and advise with the OWNER during construction.
- 3) Provide construction materials testing for construction and maintenance project as required by the project plans and specifications and/or specified by the project design Engineer.
- 4) Review all material designs as requested by the OWNER and/or project design Engineer.

- 5) Furnish the OWNER all necessary reports for construction and maintenance projects.
- 6) Provide construction observation services as requested by the OWNER on construction and maintenance projects.

**D. Miscellaneous/Other:**

- 1) Act for Owner in professional manner, using that degree of care and skill ordinarily exercised by and consistent with the standards of the profession.
- 2) Perform all technical services under the general direction of a Licensed Professional Engineer in the State of Texas and in substantial accordance with the basic requirements of the appropriate Standards of the American Society for Testing and Materials, where applicable, or other standards designated by County.
- 3) Employ testing machines which have been calibrated within a period not exceeding twelve (12) months from the time of use by devices of accuracy traceable to the National Institute for Standards and Technology (NIST) of the United States Department of Commerce, and, upon request, submit to the OWNER or its authorized representative documentation of such calibration.
- 4) Promptly submit formal construction materials testing reports for all tests, observations and services performed indicating where applicable, compliance with OWNER specifications or other documents. Such reports shall be completed and factual, citing the tests performed, methods employed, values obtained, parts of the structure and location at which tests were made.
- 5) The plans and specifications prepared under this Agreement shall become the property of the OWNER upon completion of the work and payment in full of all monies due to the Engineer.
- 6) Retain all pertinent records relating to the services performed for a period of five (5) years following submission of all reports, during which period the records will be made available to the Owner within a reasonable time.

**NOTE:** Change in and/or additional services to Project Specific Scope will require prior approval from Owner prior to undertaking.

# EXHIBIT "B"

## MINNESOTA ROAD Estimated Fee Summary

Our fee estimate is in accordance with the time and tests performed as shown below:

| Earthwork Observation/Testing                 |          |          |           |                    |
|---|----------|----------|-----------|--------------------|
| Service                                       | Quantity | Unit     | Unit Rate | Estimate           |
| Engineering Technician                        | 38       | Hour     | \$ 50.00  | \$ 1,900.00 ✓      |
| Soil with gravel, base materials (6" mold)    | 2        | Each     | \$ 275.00 | \$ 550.00 ✓        |
| Liquid and Plastic Limits (Single Point Test) | 2        | Each     | \$ 75.00  | \$ 150.00 ✓        |
| Sieve Analysis                                | 1        | Each     | \$ 85.00  | \$ 85.00 ✓         |
| Nuclear Gauge (per day)                       | 14       | Day      | \$ 50.00  | \$ 700.00 ✓        |
| Vehicle Trip Charge                           | 14       | Per Trip | \$ 40.00  | \$ 560.00 ✓        |
| <b>Subtotal, Earthwork</b>                    |          |          |           | <b>\$ 3,945.00</b> |
|   |          |          |           |                    |
| <b>CME Project Management</b>                 | 6        | Hour     | \$ 100.00 | \$ 600.00 ✓        |
|   |          |          |           |                    |
| <b>ESTIMATE TOTAL</b>                         |          |          |           | <b>\$ 4,545.00</b> |