

**EXHIBIT “F”**  
**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Agreement # C-24-0425-12-10**

**WORK AUTHORIZATION NO. 1**

**THIS WORK AUTHORIZATION** is made pursuant to the terms and conditions of the Professional Engineering Services Agreement No. C-24-0425-12-10, incorporated herein by reference, for the “[ARPA-23-124-346] **Construction Material Testing Services – Hidalgo County Precinct 4 J-01 Stormwater Management Project**” 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 material testing in general accordance with the project specifications for the Hidalgo County Precinct 4 J-01 Stormwater Management Project - Phase 1.

The **Engineer** is to provide the scope of Services as required by the Agreement with Owner.

The scope of services to be provided by the **Engineer** is identified in **Attachment “A”** – “*Scope of Services to be provided by Engineer*” attached hereto and incorporated by reference.

**PART 2. ESTIMATED COST**

The estimated cost for services under this Work Authorization is **\$39,164.72**. This amount is based upon the costs outlined in the **Attachment “B”** – “*Fee Proposal*” attached hereto and incorporated by reference.

**PART 3. PAYMENT**

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the **Professional Engineering Services** Agreement No. C-24-0425-12-10 between the **Owner** and the **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 scopes of the Work Authorization, within the limits of Agreement No. C-24-0425-12-10 , provided in this Work Authorization; or on ( \_\_\_\_\_ DATE \_\_\_\_\_).** *If applicable:* Engineer shall conform to the approved “Work/Project Schedule”, attached hereto and incorporated by reference herein as **Attachment “C”**.

**PART 6. RESPONSIBILITIES AND OBLIGATIONS**

This Authorization does not waive the parties’ responsibilities and obligations provided under the Agreement No. C-24-0425-12-10.

**PART 7. ACKNOWLEDGEMENT AND CONFIRMATION**

Acknowledgement and confirmation by **Hidalgo County Precinct 4, Commissioner Ellie Torres**, as to content and detail of this **Work Authorization No. 1**.

**HIDALGO COUNTY PRECINCT No. 4**

By: \_\_\_\_\_  
**Ellie Torres, Commissioner**

**PART 8. ACCEPTANCE AND APPROVAL**

This Work Authorization is hereby accepted and approved by the Hidalgo County Commissioners Court and hereby executed and effective as of the date indicated below.

**APPROVED BY COMMISSIONERS’ COURT ON DECEMBER 10<sup>TH</sup>, 2024.**

**Agenda Item No. 97588**

**Executive Office: \_\_\_\_\_**

**ENGINEER:**  
TERRACON CONSULTANTS, INC.

**COUNTY:**  
COUNTY OF HIDALGO

\_\_\_\_\_  
Jorge A. Flores, P.G.  
Senior Principal/Office Manager

\_\_\_\_\_  
Hon. Richard F. Cortez, County Judge

**ATTEST:**

\_\_\_\_\_  
Arturo Guajardo, Jr., County Clerk

**LIST OF ATTACHMENTS:**

**Attachment “A” – *Scope of Services to be provided by Engineer***

**Attachment “B” – *Fee Proposal***

**Attachment “C” – *Approved Work/Project Schedule (If applicable)***



# **ATTACHMENT A**

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## **SCOPE OF SERVICES TO BE PROVIDED BY ENGINEER**

## **Scope of Services to be provided by the Engineer**

Terracon will perform materials testing in general accordance with the project specifications. The time required for quality control testing during the construction phase on the project is directly related to the contractor's scheduling and performance. Therefore, our fee for materials testing and observation services will be based upon applicable unit prices and hourly rates. Our anticipated scope of services is as follows:

- Earthwork and Site Preparation Observations and Testing
- Reinforced Concrete Observations and Testing
- Asphalt Observations and Testing
- Project Management and Administration

### **1. Earthwork and Site Preparation Observations and Testing:**

- Observe and test structural fill placement and perform field density and moisture content testing during fill placement.
- Testing quantities and frequencies will be in general accordance with the project specifications.
- Perform laboratory testing of proposed fill soils to determine their dry density versus moisture content relationship in general accordance with the Standard Proctor test method

### **2. Reinforced Concrete Observations and Testing:**

- Sample fresh concrete and perform field tests including slump, air content and temperature (ASTM C172, C143, C231, and C1064).
- Observe placement methods and verify mix usage.
- Perform compressive strength tests of concrete test cylinders cast in the field per ASTM C39.
- Observe size, quantity, spacing, splice length, and cover of steel reinforcing.

### **3. Asphalt Observations and Testing:**

- Observe proof rolling of subgrades in the parking and access roads to identify any unstable materials prior to stone base placement.
- Perform field density testing of new pavement stone base and confirm compaction of new asphalt surface and binder materials.

### **4. Project Management and Administration:**

- A project manager will be assigned to the project to review the daily activity and assist in scheduling the work. Field and laboratory tests will be reviewed prior to submittal. The project manager will be responsible for monitoring the project budget and will oversee the preparation of the final report.



# **ATTACHMENT B**

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## **FEE PROPOSAL**

# Cost Proposal

**COST ESTIMATE FOR  
CONSTRUCTION MATERIALS TESTING & SPECIAL INSPECTION SERVICES  
Hidalgo County Precinct No. 4 J-01 Stormwater Management Project  
TERRACON PROPOSAL NO. P88241284**

Earthwork Observation and Testing				
Service	Quantity	Unit	Unit Rate	Estimate
Standard Proctor - ASTM D698	6	Each	\$ 234.00	\$ 1,404.00
Atterberg Limits of Soils - ASTM D4318	6	Each	\$ 125.00	\$ 750.00
Material Finer #200 Sieve-ASTM D1140	6	Each	\$ 89.00	\$ 534.00
Sieve Analysis (Dry) (4 Sieves) - ASTM C136	1	Each	\$ 115.00	\$ 115.00
Lime Series Testing (pH Relation) - Tex-121-E (Part III)	1	Each	\$ 625.00	\$ 625.00
Field Density Test (Nuclear) - ASTM D6938	240	Each	\$ 22.00	\$ 5,280.00
Engineering Technician	210	Hour	\$ 78.00	\$ 16,380.00
Vehicle Trip Charge (34 miles round trip)	2380	Mile	\$ 0.93	\$ 2,213.40
Subtotal, Earthwork Observation and Testing				\$ 27,301.40
Concrete Observation and Testing				
Service	Quantity	Unit	Unit Rate	Estimate
Engineering Technician	35	Hour	\$ 78.00	\$ 2,730.00
Compressive Strength of Cylinder Specimen - ASTM C39	25	Each	\$ 21.50	\$ 537.50
Vehicle Trip Charge (34 miles round trip)	340	Mile	\$ 0.93	\$ 316.20
Subtotal, Concrete Observation and Testing				\$ 3,583.70
Hot Mix Asphalt Testing				
Service	Quantity	Unit	Unit Rate	Estimate
Engineering Technician	6	Each	\$ 78.00	\$ 468.00
Maximum Theoretical SPG (Rice Gravity) - Tex-227-F	1	Each	\$ 120.00	\$ 120.00
Extraction/Sieve Analysis/Asphalt Content - Tex-210-F/Tex-200-F	1	Each	\$ 260.00	\$ 260.00
Lab Molded Density - Tex-207-F, each set	2	Set	\$ 200.00	\$ 400.00
Vehicle Trip Charge (34 miles round trip)	34	Mile	\$ 0.93	\$ 31.62
Subtotal, Hot Mix Asphalt Testing				\$ 1,279.62
Project Management and Administration				
Service	Quantity	Unit	Unit Rate	Estimate
CME Project Manager	40	Hour	\$ 175.00	\$ 7,000.00
Subtotal, Project Management Administration				\$ 7,000.00
ESTIMATE TOTAL				\$ 39,164.72



# ATTACHMENT C

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## APPROVED WORK/PROJECT SCHEDULE

## **Work Schedule**

Terracon's work schedule is directly related to the contractor's scheduling and performance. It is the responsibility of the contractor or your designated representative to notify Terracon, in advance (minimum of 24-hour notice), for testing services required on this project. Our services will be performed on an as requested basis.