

**EXHIBIT "D"**  
**HIDALGO COUNTY**  
**Agreement #C-20-071-01-28**  
**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 Precinct 2 Valle Alto Park Youth Facility Project.

The **Engineer** is to provide the Services as required by the Agreement with Owner for Geo-Technical and Construction Material Testing. 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 **\$8,376.50**. 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.

**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 \_\_\_\_\_, 2020.

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

**THE OWNER:**  
HIDALGO COUNTY

\_\_\_\_\_  
By: \_\_\_\_\_  
Print Name

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

**ATTEST:**

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

## **EXHIBIT "A"**

### **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:

- Field density/moisture testing and laboratory evaluation of soils;
- Field testing and laboratory evaluation of concrete, observation of reinforced concrete; and
- Weld/bolt observation to check conformance to the project drawings and/or building code.

Experienced field/laboratory personnel will be provided for testing services. All field/laboratory materials testing/inspection will be performed under the direction of a Texas Registered Professional Engineer. A detailed scope of services envisioned to complete the testing is as follows:

#### **SOILS**

The field services will be supported by appropriate laboratory evaluation of soils used as fill or backfill on the site. The laboratory testing will include laboratory moisture-density relationship (Proctor), with sieve analysis and Atterberg limits determinations for classification and/or determination of import fill suitability. Laboratory material evaluations will be conducted as specified for each type of soil encountered during fill placement. The testing will be performed to check compliance with project specifications. The project contractor and construction manager personnel on the site will be informed of our field observations and test results. Written reports of test results will be prepared on a regular basis throughout the project duration and distributed per your directive.

#### **CONCRETE**

American Concrete Institute (ACI) or equivalent qualified engineering technicians will be provided on an as-requested basis to sample the plastic concrete used during construction. The concrete will be tested for slump, air content and temperature at the time of placement. Sets of concrete cylinders will be molded at each sampling.

Concrete specimens will have initial field curing as recommended by the ACI standards at the site and returned to our local or portable laboratory for completing final curing prior to testing. Compressive strength testing will be conducted at 7-days (1 or 2 specimens), 28-days (2 or 3 specimens) intervals to determine compliance with project specifications. All test results will be conveyed after testing is completed

## **STRUCTURAL STEEL**

Certified Welding Inspector (CWI) will make periodic observations of the structure for compliance to the project drawings and building code. Areas to be observed will include welds, bolted connections, and steel decking. Observations will be verbally transmitted on-site at the time of inspection with a written report issued as a follow-up.

Our services do not include observation and testing services relating to paints, NDE of steel members (ultra-sonic, radiography, and magnetic particle). Our services do not include observation and testing services at locations other than the project site or our laboratory.

## **PROJECT MANAGEMENT**

The project manager will be the point of contact for the project and his duties include as related materials testing and observation services the following:

- a) Attend construction meetings, on as scheduled basis;
- b) Review concrete mixes submitted, on as scheduled basis;
- c) Coordinate field and laboratory testing;
- d) Communicate with Terracon field technicians, Contractor, and Owner's site representative;
- e) Review laboratory and field test reports;
- f) Control our budget and invoice;
- g) Performing site visits to the project site; and
- h) Provide technical assistance.

## EXHIBIT "B"

### COST PROPOSAL

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

Earthwork Observation/Testing				
Service	Quantity	Unit	Unit Rate	Estimate
Moisture/Density Curve (ASTM D698)	2	Each	\$ 225.00	\$ 450.00
Moisture/Density Curve (ASTM D1557)		Each	\$ 275.00	\$ -
Atterberg Limits (ASTM D4318)	3	Each	\$ 75.00	\$ 225.00
Sieve Analyses (-200 Sieve)	2	Each	\$ 55.00	\$ 110.00
Sieve Analyses (ASTM C136 & C117)		Each	\$ 110.00	\$ -
Nuclear Density Test	36	Each	\$ 11.50	\$ 414.00
Soil Technician	45	Hour	\$ 50.00	\$ 2,250.00
Vehicle Trip Charge	15	Per Trip	\$ 40.00	\$ 600.00
<b>Subtotal, Earthwork</b>				<b>\$ 4,049.00</b>

Reinforcing Steel Observation				
Service	Quantity	Unit	Unit Rate	Estimate
Engineering Technician	6	Hour	\$ 50.00	\$ 300.00
Vehicle Trip Charge	2	Per Trip	\$ 40.00	\$ 80.00
<b>Subtotal, Reinforcing Steel</b>				<b>\$ 380.00</b>

Concrete Observation/Testing				
Service	Quantity	Unit	Unit Rate	Estimate
Concrete Cylinders, (ASTM C31 & C39)	25	Each	\$ 14.50	\$ 362.50
Engineering Technician	18	Hour	\$ 50.00	\$ 900.00
Vehicle Trip Charge	6	Per Trip	\$ 40.00	\$ 240.00
<b>Subtotal, Concrete</b>				<b>\$ 1,502.50</b>

Structural Steel Observation/CWI				
Service	Quantity	Unit	Unit Rate	Estimate
Certified Welding Inspector, CWI	15	Hour	\$ 95.00	\$ 1,425.00
Vehicle Trip Charge	3	Per Trip	\$ 40.00	\$ 120.00
<b>Subtotal, Structural Steel</b>				<b>\$ 1,545.00</b>

<b>Project Management</b>	10	Hour	\$ 90.00	\$ 900.00
<b>Subtotal, Project Management</b>				<b>\$ 900.00</b>

<b>ESTIMATE TOTAL</b>				<b>\$ 8,376.50</b>
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# CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.  
 Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

**OFFICE USE ONLY  
 CERTIFICATION OF FILING**

Certificate Number:  
 2020-591739

Date Filed:  
 02/24/2020

Date Acknowledged:

**1 Name of business entity filing form, and the city, state and country of the business entity's place of business.**

Terracon Consultants, Inc.  
 Pharr, TX United States

**2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.**

Hidalgo County

**3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.**

C-20-071-01-28  
 Professional Engineering Services

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary
	Anderson, Tim	Tempe, AZ United States	X	
	O'Grady, Michael	Olathe, KS United States	X	
	Covert, Michael	Olathe, KS United States	X	
	Cobb, Harold	Houston, TX United States	X	
	Pavlicek, Robert	Raleigh, NC United States	X	
	Packer, Gayle	Olathe, KS United States	X	

**5 Check only if there is NO Interested Party.**

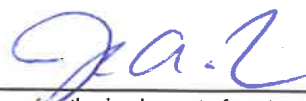
**6 UNSWORN DECLARATION**

My name is Jorge A. Flores, P.G., and my date of birth is 10/20/1972.

My address is 1506 Mid Cities Dr., Pharr, Tx., 78577, USA.  
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in Hidalgo County, State of Texas, on the 24th day of February, 2020.  
(month) (year)



Signature of authorized agent of contracting business entity  
 (Declarant)