

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-13-185-06-18**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 10**

**THIS WORK AUTHORIZATION** is made pursuant to the terms and conditions of Section I.A. of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **Millennium Engineers Group, Inc.**, professional engineers of Edinburg, Texas, hereinafter called "**Engineer**".

**PART 1. SCOPE OF WORK**

The purpose of this Work Authorization is for the **Engineer** to provide

**Construction Materials Engineering Services for the Valley Boulevard at Alamo Terrace Subdivision project.**

The scope of services to be provided by the **Owner** is identified in **EXHIBIT "A"** – **Scope of Services to be Provided by the Owner** attached hereto.

The scope of services to be provided by the **Engineer** is identified in **EXHIBIT "B"** – **Scope of Services to be Provided by the Engineer** attached hereto.

**PART 2. ESTIMATED COST**

The estimated cost for services under this Work Authorization is **\$2,971.50**  
This amount is based upon the costs outlined in the **Estimated Cost Proposal** attached hereto as **EXHIBIT "D"**.

**PART 3. PAYMENT**

Compensation and payment to the **Engineer** for the services established under this Work Authorization shall be made in accordance with **Article/Part/Section 4** of the Agreement.

**PART 4. FUNDING**

This Work Authorization No. **10** 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 scopes of the work authorization.

**PART 6. RESPONSIBILITIES AND OBLIGATIONS**

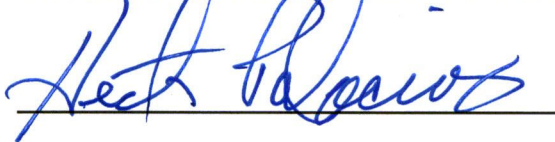
This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement**.

**PART 7. ACKNOWLEDGEMENT AND CONFIRMATION**

Acknowledgement and confirmation by **Hidalgo County** \_\_\_\_\_,  
Commissioner Hector Palacios as to content and detail of this **Work**  
**Authorization No. 10**

**HIDALGO COUNTY**

**BY: Commissioner Hector Palacios**


  
\_\_\_\_\_

**PART 8. ACCEPTANCE AND APPROVAL**

This Work Authorization is hereby accepted, approved by Hidalgo County  
Commissioners' Court on 4/22/2014 as indicated below and effective as of  
22<sup>nd</sup> day of April, 2014.

**THE ENGINEER:**

**THE OWNER:  
HIDALGO COUNTY**

  
\_\_\_\_\_

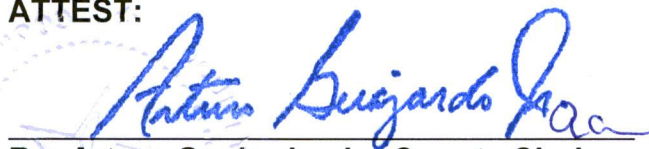
**By: Raul Palma, President**

  
\_\_\_\_\_

**By: Ramon Garcia, County Judge**

**ATTEST:**

APPROVED BY  
COMMISSIONERS' COURT  
ON: 4/22/14

  
\_\_\_\_\_

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

**LIST OF ATTACHMENTS**

- ATTACHMENT "A" - Services to be Provided by the Owner
- ATTACHMENT "B" - Services to be Provided by the Engineer
- ATTACHMENT "C" - Work Schedule
- ATTACHMENT "D" - Cost Proposal

# **ATTACHMENT “A”**

## **Services To Be Provided By The Owner**

**EXHIBIT "A"**  
**SERVICES TO BE PROVIDED BY THE OWNER/COUNTY**

The following provides an outline of the services to be provided by the **Owner** in the development of **Projects** (as defined and more particularly identified in **EXHIBIT "B"** attached to this Agreement).

**General**

The Owner will provide to the **Engineer** the following:

- (1) Provide the authorization to proceed with services through coordination with the project consulting and design Engineer.
- (2) Payment for work performed by the **Engineer** and accepted by the **Owner** in accordance with Article 3 of this Agreement.
- (3) Assistance to the **Engineer**, as necessary, to obtain the required data and information from other local, regional, State and Federal agencies that the **Engineer** cannot easily obtain.
- (4) Provide any available relevant data the **Owner** may have on file concerning the projects.
- (5) Provide timely review and decisions in response to the **Engineer's** request for information and/or required submittals and deliverables, in order for the **Engineer** to maintain the work schedule agreed upon.
- (6) Attend and participate in progress meetings as required and as coordinated and conducted by the **Engineer**.
- (7) Provide the authorization to proceed with services on project by project basis through consulting design and construction engineer.

# **ATTACHMENT “B”**

## **Services To Be Provided By The Engineer**

## **Exhibit “B”**

### Services to be Provided by Laboratory

The services to be provided by the LABORATORY in providing Geotechnical Laboratory Services, Construction Materials Testing Services, Construction Observation Services and Environmental Services for Hidalgo County Precinct No. 2 Projects, “ON A AS NEEDED BASIS” and projects is 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 the 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 specification 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 recommendations for the design, construction and maintenance projects.
- (6) Provide assistance to the OWNER in providing pavement condition studies.
- (7) Furnish the OWNER all necessary reports for preliminary design, design, 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 projects 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 inspection 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 Laboratory in the State of Texas and in substantial accordance with the basic requirements of the appropriate Standards of the American Society of 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 devised of accuracy traceable to the National Institute of 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 the 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 Laboratory.
- (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 Scope will require prior approval from OWNER prior to undertaking.

# **ATTACHMENT “C”**

## **Work Schedule**

## **ATTACHMENT "C"**

### **Work Schedule**

Millennium Engineers Group, Inc. will go out to site on an as-needed basis to perform testing services. Services will be provided as requested by project personnel. A 24-hour notice will be required from project personnel.

# **ATTACHMENT “D”**

## **Cost Proposal**



**SOILS**

Task	Qty.	Unit Rate	Estimated Cost
Soil Engineering Technician (hourly)	7.5	41.00	307.50
Moisture Density Relationship, Standard Proctor (each)	1	175.00	175.00
Atterberg Limits (each)	1	61.00	61.00
Sieve Analysis (each)	1	55.00	55.00
Wet Ball Mill (each)	-	185.00	-
Percent Passing No. 200 Sieve Analysis (each)	-	42.00	-
Nuclear Density Test (each)	4	22.00	88.00
Vehicle Trip Charge (each)	3	37.00	111.00
Sub-Total (Soils)			<b>797.50</b>

**CONCRETE**

Task	Qty.	Unit Rate	Estimated Cost
Concrete Engineering Technician (hourly)			
Concrete Cylinder Compressive Strength Test (each)			
Slump Test (each)			
Air Content of Fresh Concrete (each)			
Vehicle Trip Charge (each)			
Sub-Total (Concrete)			

**STRUCTURAL STEEL**

Task	Qty.	Unit Rate	Estimated Cost
Certified Welding Inspection (hourly)			
Vehicle Trip Charge (each)			
Sub-Total (Structural)			

**ASPHALT**

Task	Qty.	Unit Rate	Estimated Cost
Asphalt Engineering Technician (hourly)	12	44.00	528.00
Extraction & Gradation, Percent Asphalt (each)	1	225.00	225.00
Lab Density (each)	1	65.00	65.00
Theoretical Maximum Specific Gravity (each)	1	60.00	60.00
Nuclear Density Tests (each)	6	22.00	132.00
Coring Rig (each)	1	75.00	75.00
Asphalt Cores (each)	3	60.00	180.00
Asphalt Core Density (each)	6	40.00	240.00
Vehicle Trip Charge (each)	3	37.00	111.00
Sub-Total (Asphalt)			<b>1,616.00</b>

**PROJECT MANAGEMENT AND ADMINISTRATION**

Task	Qty.	Unit Rate	Estimated Cost
Test Report (each)	6	30.00	180.00
Project Management (hourly)	1.5	67.00	100.50
Project Engineer (hourly)	1.5	105.00	157.50
Clerical (hourly)	3	40.00	120.00
Sub-Total (Mgmt. & Admin.)			<b>558.00</b>

**Total Estimated Cost**

**\$2,971.50**

The following assumptions were used in preparing the proposal:

- MEG's proposal is dependent on the duration of construction days and additional compensation may be required if the construction sequence is slower or faster than typical construction.
- MEG's proposal is dependent on the construction sequence that is used by the General Contractor. Estimated quantities herein are based on the most efficient scheduling the General Contractor can use to combine our services when applicable. Standby time, weather, and cancellations have not been factored into the proposal.
- The Contractors on the site will work a single shift, on a 5 days per week schedule.
- Construction Material Testing Services will be scheduled with 24 hours notice.
- Services provided outside of regular business hours as outlined in the Provisions section of this proposal, or services provided on Saturday, Sunday, or Holidays will be invoiced at 1.3 times the applicable unit rate.