

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-14-357-10-28**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 01**

**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, L&G Engineering, professional engineers of Mercedes, Texas, hereinafter called "**Engineer**".

**PART 1. SCOPE OF WORK**

The purpose of this Work Authorization is for the **Engineer** to provide Construction Materials Testing Services for Hidalgo County Pct. 3 – "Mile 9 ½ Paving Improvements (from Conway Ave. to Trospen Rd.)" 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 \$6,692.97. 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 5.1 of the Agreement.

**PART 4. FUNDING**

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

Account No. 5-1200-431-00-123-005-0-721

Requisition Number 277451 (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 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. 3 Commissioner Joe Flores as to content and detail of this Work Authorization No. # 1.

HIDALGO COUNTY  
COMMISSIONER PRECINCT NO. 3:

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 \_\_\_\_\_, 2015.

THE ENGINEER:  
L&G ENGINEERING

  
By: Jacinto Garza

THE OWNER:  
HIDALGO COUNTY

\_\_\_\_\_  
By: Ramon Garcia, County Judge

ATTEST:

\_\_\_\_\_  
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" - Project Cost Proposal

**ATTACHMENT "A"**  
**Scope of Services (Owner)**

***PROJECT: "Mile 9 1/2 Paving Improvements (from Conway Ave. to Trosper Rd.)" Project In Hidalgo County Precinct No. Three (3)***

***SERVICES TO BE PROVIDED BY OWNER***

The County of Hidalgo will provide **L&G Engineering with Construction Documents, Plans and Specifications** for the **"Mile 9 ½ Paving Improvements (from Conway Ave. to Trosper Rd.)" Project In Hidalgo County Precinct No. Three (3)**

**ATTACHMENT "B"**  
**Scope of Services (Engineer)**

***PROJECT: "Mile 9 ½ Paving Improvements (from Conway Ave. to Trospen Rd.)" Project In Hidalgo County Precinct No. Three (3)***

***GENERAL SCOPE OF WORK***

The Scope of Work will entail providing **The County of Hidalgo** with **Construction Materials Testing Services**.

The Scope of Work is identified as follows:

- **Construction Materials Testing Services**

**L&G Engineering** will furnish all equipment, materials, supplies, and incidentals as needed to perform the services required by this Contract: The work is as follows:

**Construction Materials Testing Services**

**L&G Engineering** will provide **The County of Hidalgo** with **Construction Materials Testing Services** for the ***"Mile 9 ½ Paving Improvements (from Conway Ave. to Trospen Rd.)" Project In Hidalgo County Precinct No. Three (3)***

The services to be provided are as follows:

- Sampling and laboratory testing of soils and base materials proposed for use in the construction of Roads and Bridges to determine compliance of these materials with project plans and specifications.
- Field density testing of soils and base materials to ensure proper compaction as required by project plans and specifications.
- Field sampling and testing of fresh concrete, and Laboratory testing of hardened concrete to determine compliance with project plans and specifications.
- Field Compaction testing of Asphalt to ensure proper compaction during lay down operations.
- Field inspection, sampling and laboratory testing of Asphalt materials to determine their materials properties and their compliance with project plans and specifications.
- Any additional laboratory testing as required/requested by **The County of Hidalgo** and the project plans and specifications.

- Provide accurate and timely reports to **The County of Hidalgo** and all/other recipients as designated by the County.

### **Engineering Services**

**L&G Engineering** will provide an engineer's review of all test results to determine compliance with all project plans and specifications.

### **Scheduling of Services**

L & G Engineering Laboratory is prepared to make a commitment to **The County of Hidalgo's** materials testing needs. **L & G Engineering** makes every effort to respond to its clients as requests are received, and every effort will be made to keep scheduling conflicts to a minimum. As any other firm or business providing a service, **L & G Engineering** prefers to schedule field and laboratory work with as much advance notice as possible. **L & G Engineering** understands; however, that certain situations may occur when the Client may have a need for Materials Testing Services with as little or no advance notice. During these instances, **L & G Engineering** will make every effort to dispatch personnel to the project within one (1) hour of the Client's request for services.

**ATTACHMENT "C"**  
**Work Schedule**

***PROJECT: "Mile 9 ½ Paving Improvements (from Conway Ave. to Trosper Rd.)" Project In Hidalgo County Precinct No. Three (3)***

***Work Schedule***

**L&G Engineering will provide Hidalgo County Pct. # 3 with Construction Materials Testing Services as outlined in Contract Agreement C-14-357-10-28.**

**ATTACHMENT "D"**  
**Cost Proposal**

***PROJECT: "Mile 9 ½ Paving Improvements (from Conway Ave. to Trosper Rd.)" Project In Hidalgo County Precinct No. Three (3)***

**See Attached**

## Attachment D

Mile 9 1/2 Paving Improvements (between Conway Ave. to Trospen Rd.) (3,700 LF)

Prepared For Hidalgo County Pct. No. 3

<b>Roadway Subgrade Materials Testing - Laboratory</b>				
Technician (Soils)	3	Hours	\$47.85	\$143.55
Mileage	60	Miles	\$0.53	\$31.80
Atterberg Limits of Soils	1	Each	\$79.66	\$79.66
Moisture-Density Relationship	1	Each	\$205.82	\$205.82
Test Report	1	Each	\$23.59	\$23.59
Engineering Specialist	0.5	Hours	\$119.52	\$59.76
Engineer	0.5	Hours	\$159.44	\$79.72
		<b>Sub.</b>		<b>\$623.90</b>
<b>Roadway Subgrade Field Density Testing</b>				
Technician (Soils)	12	Hours	\$47.85	\$574.20
Mileage	240	Miles	\$0.53	\$127.20
Field Density Test	12	Each	\$23.91	\$286.92
Test Report	4	Each	\$23.59	\$94.36
Engineering Specialist	2	Hours	\$119.52	\$239.04
Engineer	2	Hours	\$159.44	\$318.88
		<b>Sub.</b>		<b>\$1,640.60</b>
<b>Roadway Base Materials Testing - Laboratory</b>				
Technician (Soils)	4	Hours	\$47.85	\$191.40
Mileage	60	Miles	\$0.53	\$31.80
Sieve Analysis	1	Each	\$59.73	\$59.73
Texas Wet Ball Mill	1	Each	\$232.55	\$232.55
Atterberg Limits of Soils	1	Each	\$79.66	\$79.66
Moisture-Density Relationship	1	Each	\$205.82	\$205.82
Test Report	2	Each	\$23.59	\$47.18
Engineering Specialist	1	Hours	\$119.52	\$119.52
Engineer	1	Hours	\$159.44	\$159.44
		<b>Sub.</b>		<b>\$1,127.10</b>
<b>Base Material Field Density Testing</b>				
Technician (Soils)	12	Hours	\$47.85	\$574.20
Mileage	240	Miles	\$0.53	\$127.20
Field Density Test	12	Each	\$23.91	\$286.92
Test Report	4	Each	\$23.59	\$94.36
Engineering Specialist	2	Hours	\$119.52	\$239.04
Engineer	2	Hours	\$159.44	\$318.88
		<b>Sub.</b>		<b>\$1,640.60</b>
<b>Asphalt Testing - Field and Laboratory</b>				
Technician Time (Asphalt)	8	Hours	\$61.08	\$488.64
Mileage	60	Miles	\$0.53	\$31.80
Asphalt Rolling Pattern	2	Each	\$39.86	\$79.72
Lab Density of Asphaltic Cores	1	Each	\$73.04	\$73.04
Ext-Sieve Analysis AC Content	1	Each	\$232.48	\$232.48
Reports	3	Each	\$23.59	\$70.77
Pavement Thickness Determination	4	Each	\$66.47	\$265.88
Engineering Specialist	1.5	Hours	\$119.52	\$179.28
Engineer	1.5	Hours	\$159.44	\$239.16
		<b>Sub.</b>		<b>\$1,660.77</b>

**Total Estimated Material Testing Fees \$6,692.97**