

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-CAP-12-168-07-03**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 02**

**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 Laboratory, LLC, 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 the Colonia Access Program Projects in Hidalgo County Precinct No. Three (3).

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 \$ 16,938.23. 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 3 of the Agreement.

**PART 4. FUNDING**

This Work Authorization No.2 shall be funded through funding source:

Account No. 6-1312-431-00-123-247-0-339

Account No. 6-1312-431-00-123-834-0-339

Requisition Number 306531 (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. # 2.

HIDALGO COUNTY  
COMMISSIONER PRECINCT NO. 3:

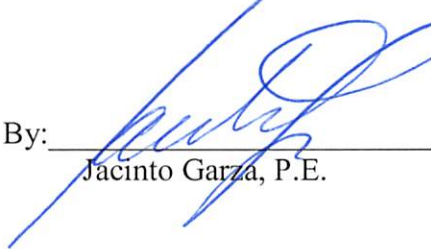
BY: 

**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 \_\_\_\_\_, 20\_\_.

THE ENGINEER:  
L&G ENGINEERING LABORATORY, LLC

THE OWNER:  
HIDALGO COUNTY

By:   
Jacinto Garza, P.E.

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

ATTEST:

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

**LIST OF ATTACHMENTS**

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

***PROJECT:*** Colonia Access Program Projects in Hidalgo County Precinct No. Three (3)

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

The County of Hidalgo will provide **L&G Engineering Laboratory, LLC** with **Construction Documents, Plans and Specifications** for the **Colonia Access Program Projects**.

**ATTACHMENT “B”**  
**Scope of Services (Engineer)**

**PROJECT: Colonia Access Program Projects 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 Laboratory 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 Laboratory, L.L.C. will provide **The County of Hidalgo** with **Construction Materials Testing Services** for the **Colonia Access Program Projects 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 Laboratory, L.L.C. 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 Laboratory 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 Laboratory prefers to schedule field and laboratory work with as much advance notice as possible. L & G Engineering Laboratory 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 Laboratory 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:*** Colonia Access Program Projects in Hidalgo County Precinct No. Three (3)

***Work Schedule***

**L&G Engineering Laboratory will provide Hidalgo County Pct. # 3 with Construction Materials Testing Services as outlined in Contract Agreement C-CAP-12-168-07-03.**

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

**PROJECT: Colonia Access Program Projects in Hidalgo County Precinct No. Three (3).**

**Contract # C-CAP-12-168-07-03**

**Colonia Name**

El Paraiso Subdivision	\$10,847.97
Palm Subdivision	\$6,090.26

<b>Total</b>	<b>\$16,938.23</b>
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**Attachment D**  
**El Paraiso Subdivision (1600 L.F.)**  
**Prepared for Hidalgo County Pct 3**

<i>Roadway Subgrade Materials Testing - Laboratory</i>				
Tech Time	8	Hrs.	\$44.95	\$359.60
Trip Charge	150	Mi.	\$0.48	\$72.00
Atterberg	2	Ea.	\$49.35	\$98.70
Moisture-Density Determ	2	Ea.	\$164.55	\$329.10
Clerical/Admin.	4	Hrs.	\$43.85	\$175.40
Eng. Spec.	3	Hrs.	\$60.30	\$180.90
Engineer	3	Hrs.	\$139.15	\$417.45
<b>Sub.</b>				<b>\$1,633.15</b>
<i>Roadway Subgrade Field Density Testing</i>				
Tech Time	12	Hrs.	\$44.95	\$539.40
Trip Charge	350	Mi	\$0.48	\$168.00
Comp. Test	25	Ea.	\$19.75	\$493.75
Clerical/Admin.	4	Hrs.	\$43.85	\$175.40
Eng. Spec.	3	Hrs.	\$60.30	\$180.90
Engineer	3	Hrs.	\$139.15	\$417.45
<b>Sub.</b>				<b>\$1,974.90</b>
<i>Roadway Base Materials Testing - Laboratory</i>				
Tech Time	8	Hrs.	\$44.95	\$359.60
Trip Charge	150	Mi.	\$0.48	\$72.00
Sieve Analysis	2	Ea.	\$49.35	\$98.70
Texas Wet Ball Mill	2	Ea.	\$191.95	\$383.90
Atterberg	2	Ea.	\$49.35	\$98.70
Moisture-Density Determ	2	Ea.	\$164.55	\$329.10
Clerical/Admin.	4	Hrs.	\$43.85	\$175.40
Eng. Spec.	3	Hrs.	\$60.30	\$180.90
Engineer	3	Hrs.	\$139.15	\$417.45
<b>Sub.</b>				<b>\$2,115.75</b>
<i>Base Material Field Density Testing</i>				
Tech Time	12	Hrs.	\$44.95	\$539.40
Trip Charge	350	Mi	\$0.48	\$168.00
Comp. Test	25	Ea.	\$19.75	\$493.75
Clerical/Admin.	4	Hrs.	\$43.85	\$175.40
Eng. Spec.	3	Hrs.	\$60.30	\$180.90
Engineer	3	Hrs.	\$139.15	\$417.45
<b>Sub.</b>				<b>\$1,974.90</b>
<i>Asphalt Testing-Field and Laboratory</i>				
Tech Time	12	Hrs.	\$44.95	\$539.40
Trip Charge	497	Mi	\$0.48	\$238.56
Rolling Patterns	8	Ea.	\$32.85	\$262.80
Density of Asphaltic Cores	3	Pr.	\$27.45	\$82.35
%AC-Grad	3	Ea.	\$191.85	\$575.55
Clerical/Admin.	4	Hrs.	\$43.85	\$175.40
Maximum Spg.	3	Ea.	\$93.20	\$279.60
Asphalt Thickness	6	Ea.	\$32.95	\$197.70
Eng. Spec.	4	Hrs.	\$60.30	\$241.20
Engineer	4	Hrs.	\$139.15	\$556.60
<b>Sub.</b>				<b>\$3,149.16</b>

**Total Estimated Material Testing Fees \$10,847.97**

**Attachment D**  
**Palm Subdivision (1470 L.F.)**  
**Prepared for Hidalgo County Pct 3**

<i>Roadway Subgrade Materials Testing - Laboratory</i>				
Tech Time	6	Hrs.	\$44.95	\$269.70
Trip Charge	150	Mi.	\$0.48	\$72.00
Atterberg	2	Ea.	\$49.35	\$98.70
Moisture-Density Determ	1	Ea.	\$164.55	\$164.55
Clerical/Admin.	2	Hrs.	\$43.85	\$87.70
Eng. Spec.	1.5	Hrs.	\$60.30	\$90.45
Engineer	1.5	Hrs.	\$139.15	\$208.73
Sub.				\$991.83
<i>Roadway Subgrade Field Density Testing</i>				
Tech Time	9	Hrs.	\$44.95	\$404.55
Trip Charge	225	Mi.	\$0.48	\$108.00
Comp. Test	15	Ea.	\$19.75	\$296.25
Clerical/Admin.	1.5	Hrs.	\$43.85	\$65.78
Eng. Spec.	1.5	Hrs.	\$60.30	\$90.45
Engineer	1.5	Hrs.	\$139.15	\$208.73
Sub.				\$1,173.75
<i>Roadway Base Materials Testing - Laboratory</i>				
Tech Time	3	Hrs.	\$44.95	\$134.85
Trip Charge	75	Mi.	\$0.48	\$36.00
Sieve Analysis	1	Ea.	\$49.35	\$49.35
Texas Wet Ball Mill	1	Ea.	\$191.95	\$191.95
Atterberg	1	Ea.	\$49.35	\$49.35
Moisture-Density Determ	1	Ea.	\$164.55	\$164.55
Clerical/Admin.	1	Hrs.	\$43.85	\$43.85
Eng. Spec.	1.5	Hrs.	\$60.30	\$90.45
Engineer	1.5	Hrs.	\$139.15	\$208.73
Sub.				\$969.08
<i>Base Material Field Density Testing</i>				
Tech Time	6	Hrs.	\$44.95	\$269.70
Trip Charge	150	Mi.	\$0.48	\$72.00
Comp. Test	16	Ea.	\$19.75	\$316.00
Clerical/Admin.	1.5	Hrs.	\$43.85	\$65.78
Eng. Spec.	1.5	Hrs.	\$60.30	\$90.45
Engineer	1.5	Hrs.	\$139.15	\$208.73
Sub.				\$1,022.65
<i>Asphalt Testing-Field and Laboratory</i>				
Tech Time	8	Hrs.	\$44.95	\$359.60
Trip Charge	208	Mi.	\$0.48	\$99.84
Rolling Patterns	6	Ea.	\$32.85	\$197.10
Density of Asphaltic Cores	2	Pr.	\$27.45	\$54.90
%AC-Grad	2	Ea.	\$191.85	\$383.70
Clerical/Admin.	2	Hrs.	\$43.85	\$87.70
Maximum Spg.	2	Ea.	\$93.20	\$186.40
Asphalt Thickness	5	Ea.	\$32.95	\$164.75
Eng. Spec.	2	Hrs.	\$60.30	\$120.60
Engineer	2	Hrs.	\$139.15	\$278.30
Sub.				\$1,932.89

Total Estimated Material Testing Fees    \$6,090.26