

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-CAP-08-022-09-02**  
**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 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 Bernal Subdivision (between FM 491 & Mile 12 North) Project in Hidalgo County Precinct No. One (1)**.

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 **\$1,310.40**. 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.01 shall be funded through funding source:

Account No. 8-1311-431-00-121-105-1-339

Requisition Number 137981 (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).

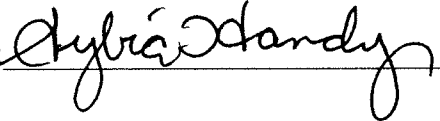
**PART 6. RESPONSIBILITIES AND OBLIGATIONS**

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. 1 Commissioner Sylvia Handy as to content and detail of this Work Authorization No. # 01.

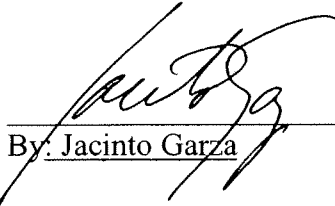
HIDALGO COUNTY  
COMMISSIONER PRECINCT NO. 1:

BY: 

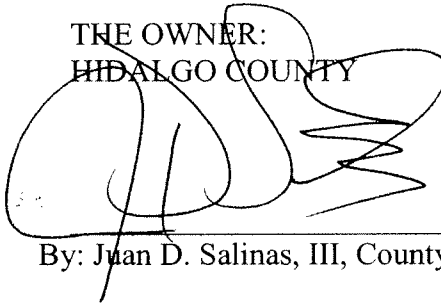
**PART 8. ACCEPTANCE AND APPROVAL**

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on 9/2/2008 and effective upon fully executed..

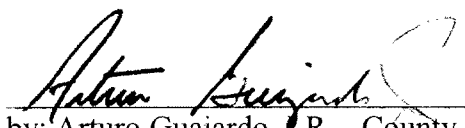
THE ENGINEER:  
L&G ENGINEERING LABORATORY, LLC

  
By: Jacinto Garza

THE OWNER:  
HIDALGO COUNTY

  
By: Juan D. Salinas, III, County Judge

ATTEST:

  
by: Arturo Guajardo, J.R. - 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:*** Bernal Subdivision (between FM 491 & Mile 12 North) Construction Project in Hidalgo County Precinct No. One (1)

***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 **Bernal Subdivision (between FM 491 & Mile 12 North) Construction Project**.

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

**PROJECT: Bernal Subdivision (between FM 491 & Mile 12 North) Construction Project in Hidalgo County Precinct No. One (1)**

***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 **Bernal Subdivision (between FM 491 & Mile 12 North) Construction Project in Hidalgo County Precinct No. One (1)**.

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:*** Bernal Subdivision (between FM 491 & Mile 12 North) Construction Project  
in Hidalgo County Precinct No. One (1)

***Work Schedule***

**L&G Engineering Laboratory** will provide **Hidalgo County Pct. # 1** with **Construction Materials Testing Services** as outlined in **Contract Agreement C-CAP-08-022-05-20**.

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

***PROJECT:*** Bernal Subdivision (between FM 491 & Mile 12 North) Construction Project  
in Hidalgo County Precinct No. One (1).

**See Attached**

**Attachment "D"**  
**Bernal Subdivision (between FM 491 & Mile 12 North)(Approx. 1,237 L.F.)**  
**Prepared For Hidalgo County Pct. No. 1**

<i><b>In Situ Subgrade Laboratory Testing</b></i>				
Tech Time	0.25	Hrs.	\$43.60	\$10.90
Trip Charge	5	Mi	\$0.473	\$2.37
Proctor	1	Ea.	\$170.20	\$170.20
Atterberg	1	Ea.	\$47.85	\$47.85
Admin.	0.125	Hrs.	\$42.55	\$5.32
Eng. Spec.	0.125	Hrs.	\$58.50	\$7.31
Engineer	0.125	Hrs.	\$134.95	\$16.87
<b>Sub.</b>				<b>\$260.82</b>
<i><b>In-Situ Subgrade Field Density Testing</b></i>				
Tech Time	0.25	Hrs.	\$43.60	\$10.90
Trip Charge	5	Mi	\$0.473	\$2.37
Comp. Test	2	Ea.	\$19.15	\$38.30
Admin.	0.125	Hrs.	\$42.55	\$5.32
Eng. Spec.	0.125	Hrs.	\$58.50	\$7.31
Engineer	0.125	Hrs.	\$134.95	\$16.87
<b>Sub.</b>				<b>\$81.07</b>
<i><b>Roadway Base Materials Testing - Laboratory</b></i>				
Tech Time	0.25	Hrs.	\$43.60	\$10.90
Trip Charge	5	Mi.	\$0.473	\$2.37
Sieve Analysis	1	Ea.	\$47.90	\$47.90
Texas Wet Ball Mill	1	Ea.	\$186.20	\$186.20
Atterberg	1	Ea.	\$47.85	\$47.85
Moisture-Density Determ	1	Ea.	\$170.20	\$170.20
Admin	0.125	Hrs.	\$42.55	\$5.32
Eng. Spec.	0.125	Hrs.	\$58.50	\$7.31
Engineer	0.125	Hrs.	\$134.95	\$16.87
<b>Sub.</b>				<b>\$494.92</b>
<i><b>Base Material Field Density Testing</b></i>				
Tech Time	0.25	Hrs.	\$43.60	\$10.90
Trip Charge	4	Mi	\$0.473	\$1.89
Comp. Test	1	Ea.	\$19.15	\$19.15
Admin.	0.125	Hrs.	\$42.55	\$5.32
Eng. Spec.	0.125	Hrs.	\$58.50	\$7.31
Engineer	0.125	Hrs.	\$134.95	\$16.87
<b>Sub.</b>				<b>\$61.44</b>
<i><b>Asphalt Testing-Field and Laboratory</b></i>				
Tech Time	0.25	Hrs.	\$53.40	\$13.35
Trip Charge	5	Mi	\$0.473	\$2.37
Rolling Patterns	1	Ea.	\$31.90	\$31.90
Laboratory Molded (ga)	1	Ea.	\$26.60	\$26.60
%AC-Grad	1	Ea.	\$186.10	\$186.10
Rice Gravity (gr)	1	Ea.	\$90.40	\$90.40
Admin.	0.125	Hrs.	\$42.55	\$5.32
Asphalt Thickness	1	Ea.	\$31.95	\$31.95
Eng. Spec.	0.125	Hrs.	\$58.50	\$7.31
Engineer	0.125	Hrs.	\$134.95	\$16.87
<b>Sub.</b>				<b>\$412.17</b>

**Total Estimated Materials Testing Fees \$1,310.40**

Account No 1311-431-00-121-105-1-339

Accounting Period 13

Period YTD

213576

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Acct. Year 08

Previous Year Info.

Description BERNAL-OTHER PROF SRV

Summary

Budgets

Open Encumbrances

Encumbrance Detail

All Encumbrances

Checks

All 14 <>

Period	Original Budget	Adjusted Budget	Encumbrance	Actual	Avail/Rec/Bal
01	.00	.00	1,310.60	.00	1,310.60-
02	.00	1,486.40	.00	175.80	.00
07	.00	.00	1,310.60-	.00	1,310.60
YTD	.00	1,486.40	.00	175.80	1,310.60
PRE	.00	.00	.00	.00	.00
TOT	.00	1,486.40	.00	175.80	1,310.60

*Handwritten:* - 114326