

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-08-127-04-22**  
**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 Geotechnical & Construction Materials Testing Services for Hidalgo County Pct. 3 - 8 1/2 Mile Road (from Los Ebanos Rd. to Trosper Rd).

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 \$5,682.10. 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. 02 shall be funded through funding source:

Account No. 8-1203-431-00-123-005-0-131

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 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. # 02.

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 \_\_\_\_\_, 2008.

THE ENGINEER:  
L&G ENGINEERING LABORATORY, LLC

THE OWNER:  
HIDALGO COUNTY

  
By: Jacinto Garza

\_\_\_\_\_  
By: Juan D. Salinas III, 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

L&G Engineering Laboratory  
Hidalgo County Precinct #3

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

***PROJECT: 8 ½ Mile Road Project 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 **8 ½ Mile Road (Los Ebanos to Trospen Road) Project**.

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

**PROJECT: 8 ½ Mile Road (Los Ebanos to Trospen Road) 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 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 **8 ½ Mile 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 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: 8 ½ Mile Road Project 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-08-127-04-22.**

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

**PROJECT: 8 ½ Mile Road (Los Ebanos to Troser Road) Project in Hidalgo County  
Precinct No. Three (3).**

**(See Attached)**

**Attachment I**  
**8 1/2 Mile from Los Ebanos to Trosper Road(appro. 5280 LF)**  
**Prepared For Hidalgo County Pct. No. 3**

<b>Roadway Subgrade Materials Testing - Laboratory</b>				
Tech Time	3	Hrs.	\$41.80	\$125.40
Trip Charge	25	Mi.	\$0.46	\$11.50
Atterberg	1	Ea.	\$69.65	\$69.65
Molsture-Density Determ	1	Ea.	\$179.95	\$179.95
Reports	2	Ea.	\$20.80	\$41.20
Eng. Spec.	1	Hrs.	\$104.50	\$104.50
Engineer	1	Hrs.	\$139.40	\$139.40
<b>Sub.</b>				<b>\$671.60</b>
<b>Roadway Subgrade Materials Testing - Laboratory</b>				
Tech Time	12	Hrs.	\$40.55	\$486.60
Trip Charge	100	MI	\$0.45	\$45.00
Comp. Test	15	Ea.	\$13.55	\$203.25
Reports	5	Ea.	\$20.00	\$100.00
Eng. Spec.	2	Hrs.	\$101.35	\$202.70
Engineer	2	Hrs.	\$135.20	\$270.40
<b>Sub.</b>				<b>\$1,307.95</b>
<b>Roadway Base Materials Testing - Laboratory</b>				
Tech Time	3	Hrs.	\$41.80	\$125.40
Trip Charge	25	Mi.	\$0.46	\$11.50
Sieve Analysis	1	Ea.	\$52.20	\$52.20
Texas Wet Ball Mill	1	Ea.	\$203.25	\$203.25
Atterberg	1	Ea.	\$69.65	\$69.65
Molsture-Density Determ	1	Ea.	\$179.95	\$179.95
Reports	2	Ea.	\$20.60	\$41.20
Eng. Spec.	1	Hrs.	\$104.50	\$104.50
Engineer	1	Hrs.	\$139.40	\$139.40
<b>Sub.</b>				<b>\$927.05</b>
<b>Base Material Field Density Testing</b>				
Tech Time	12	Hrs.	\$40.55	\$486.60
Trip Charge	100	MI	\$0.45	\$45.00
Comp. Test	15	Ea.	\$13.55	\$203.25
Reports	5	Ea.	\$20.00	\$100.00
Eng. Spec.	2	Hrs.	\$101.36	\$202.70
Engineer	2	Hrs.	\$135.20	\$270.40
<b>Sub.</b>				<b>\$1,307.95</b>
<b>Asphalt Testing Field and Laboratory</b>				
Tech Time	6	Hrs.	\$53.40	\$320.40
Trip Charge	75	MI	\$0.46	\$34.50
Rolling Patterns	2	Ea.	\$34.85	\$69.70
Laboratory Molded (ga)	1	Pr.	\$91.90	\$91.90
%AC-Grad	1	Ea.	\$203.25	\$203.25
Rice Gravity (gr)	1	Ea.	\$101.30	\$101.30
Reports	3	Ea.	\$18.00	\$54.00
Asphalt Thickness	6	Ea.	\$58.10	\$348.60
Eng. Spec.	1	Hrs.	\$104.50	\$104.50
Engineer	1	Hrs.	\$139.40	\$139.40
<b>Sub.</b>				<b>\$1,467.55</b>

**Total Estimated Material Testing Fees \$5,682.10**

Attach D Cost Est. Iowa Rd..xls