

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-10-319-10-19**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 4**

**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 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 Mile 12 1/2 North Road (between FM 88 & Mile 4) 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 **\$4,496.64**. 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. 4 shall be funded through funding source:  
Account No. 2011-1342-431-00-121-041-0-731  
Requisition Number 200798 (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 Joel Quintanilla as to content and detail of this Work Authorization No. #4.

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 \_\_\_\_\_ as indicated below and effective as of \_\_\_\_\_ day of \_\_\_\_\_, 2011.

THE ENGINEER:  
L&G ENGINEERING LABORATORY, LLC

THE OWNER:  
HIDALGO COUNTY

Armando J. Sanden  
By: Jacinto Garza, P.E.  
**ARMANDO J. SANDEN**  
VICE PRESIDENT

\_\_\_\_\_  
Hon. Ramon Garcia, County Judge

ATTEST:

\_\_\_\_\_  
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:*** Mile 12 ½ North Road (between FM 88 & Mile 4) 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 **Mile 12 ½ North Road (between FM 88 & Mile 4) Project**.

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

**PROJECT: Mile 12 ½ North Road (between FM 88 & Mile 4) 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 **Mile 12 ½ North Road (between FM 88 & Mile 4) 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:*** Mile 12 ½ North Road (between FM 88 & Mile 4) 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-10-319-10-19**.

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

***PROJECT:*** Mile 12 ½ North Road (between FM 88 & Mile 4) Project in Hidalgo County  
Precinct No. One (1)

**See Attached**

**Attachment "I"**  
**Mile 12 1/2 Between FM 88 and Mile 4**  
**Prepared for Hidalgo County Pct. 1**

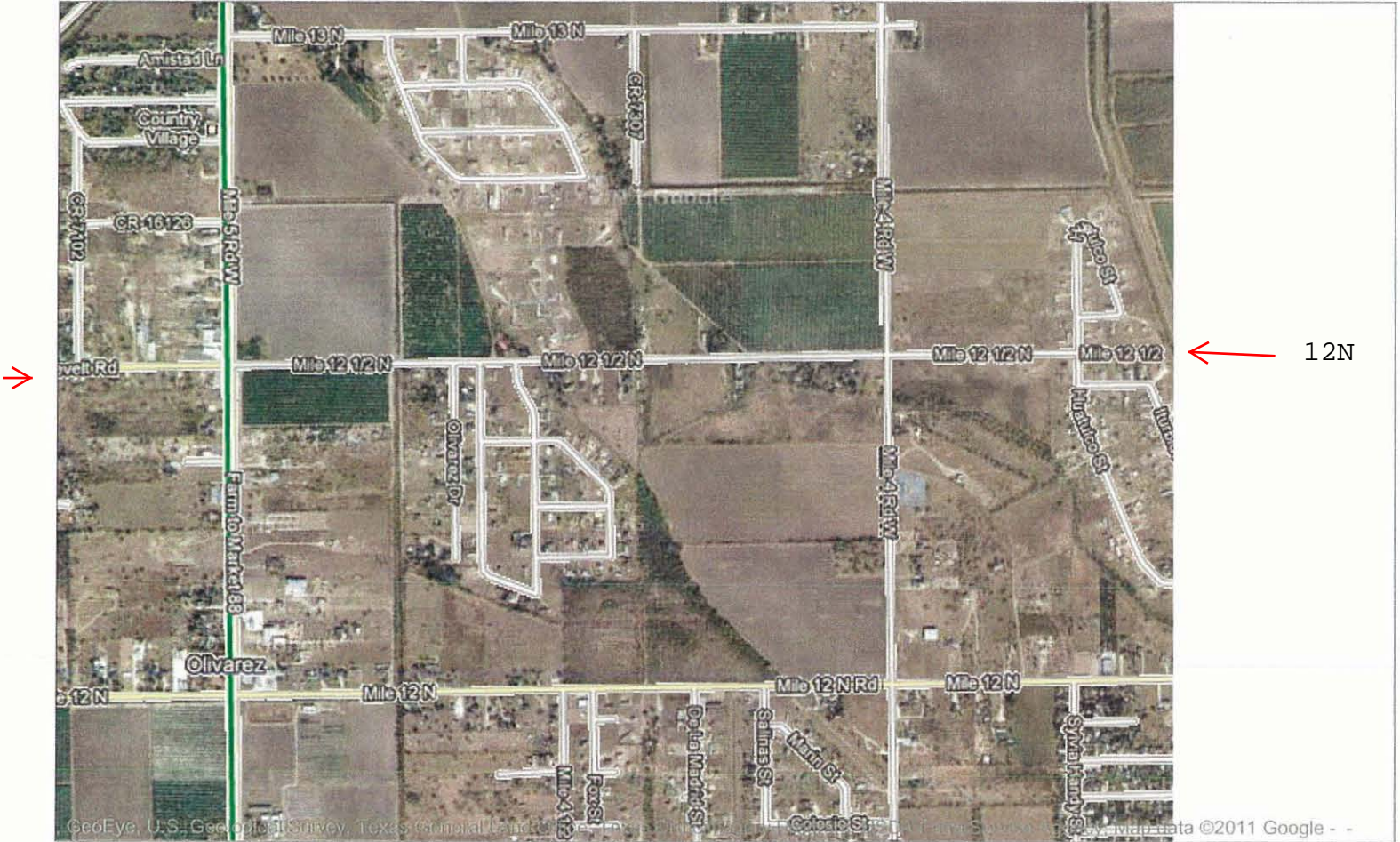
<i>Subgrade Testing - Laboratory</i>						
Tech Time	2.5	Hrs.	\$45.07		\$112.68	
Trip Charge	20	Mi.	\$0.49		\$9.80	
Atterberg	4	Ea.	\$75.05		\$300.20	
Moisture-Density Determ	1	Ea.	\$193.92		\$193.92	
Reports	2	Ea.	\$22.23		\$44.46	
Eng. Spec.	0.5	Hr.	\$112.61		\$56.31	
Engineer	0.5	Hr.	\$150.22		\$75.11	
				<b>Sub.</b>	<b>\$792.47</b>	
<i>Subgrade Field Density Testing</i>						
Tech Time	3	Hrs.	\$45.07		\$135.21	based
Trip Charge	20	Mi.	\$0.49		\$9.80	on
Comp. Test	3	Ea.	\$22.53		\$67.59	1
Reports	1	Ea.	\$22.23		\$22.23	Trip
Eng. Spec.	0.25	Hr.	\$112.61		\$28.15	
Engineer	0.25	Hr.	\$150.22		\$37.56	
				<b>Sub.</b>	<b>\$300.54</b>	
<i>Roadway Base Materials Testing - Laboratory</i>						
Tech Time	2	Hrs.	\$45.07		\$90.14	
Trip Charge	20	Mi.	\$0.49		\$9.80	
Atterberg	1	Ea.	\$75.05		\$75.05	
Moisture-Density Determ	1	Ea.	\$193.92		\$193.92	
Reports	2	Ea.	\$22.23		\$44.46	
Eng. Spec.	0.25	Hr.	\$112.61		\$28.15	
Engineer	0.25	Hr.	\$150.22		\$37.56	
				<b>Sub.</b>	<b>\$479.08</b>	
<i>Base Material Field Density Testing</i>						
Tech Time	8	Hrs.	\$45.07		\$360.56	
Trip Charge	80	Mi.	\$0.49		\$39.20	based
Comp. Test	12	Ea.	\$22.53		\$270.36	on 4
Reports	4	Ea.	\$22.23		\$88.92	trips
Eng. Spec.	1	Hr.	\$112.61		\$112.61	
Engineer	1	Hr.	\$150.22		\$150.22	
				<b>Sub.</b>	<b>\$1,021.87</b>	
<i>Asphalt Field &amp; Laboratory Testing</i>						
Tech Time	6	Hrs.	\$57.55		\$345.30	
Trip Charge	60	Mi.	\$0.49		\$29.40	based
Rolling Patterns	4	Ea.	\$37.56		\$150.24	on 3
Ext./Sieve/% A/C	2	Ea.	\$219.04		\$438.08	trips
Coring ACP Thickness	6	Ea.	\$83.33		\$499.98	
Reports	5	Ea.	\$22.23		\$111.15	
Eng. Spec.	1.25	Hr.	\$112.61		\$140.76	
Engineer	1.25	Hr.	\$150.22		\$187.78	
				<b>Sub.</b>	<b>\$1,902.69</b>	

**Estimated Project Total    \$4,496.64**



To see all the details that are visible on the screen, use the "Print" link next to the map.

Mile 4W



Mile 4W