

L&G Engineering Laboratory

Construction Material Testing
Geotechnical Engineering

June 28, 2011

Mr. Joseph Palacios
Attn: Rumaldo Munoz
Hidalgo County, Precinct No. 4
1102 N. Doolittle Rd.
Edinburg, Texas 78539

RE: Work Authorization No. 1 - Rogers Rd., Ingle Rd., Mile 11 & Sharp Rd. Construction Projects

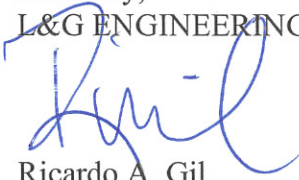
Dear Mr. Montes:

L&G Engineering Laboratory, L.L.C. (L&G), is providing you two (2) signed original work authorization forms for Construction Materials Testing Services for the referenced project as per your request. We are attaching the following in duplicate:

- Work Authorization No. 1
- The Scope of Services (Owner) (Attachment A)
- The Scope of Services (Engineer) (Attachment B).
- Work Schedule (Attachment C)
- Project Cost Proposal (Attachment D)

L & G Engineering Laboratory, L.L.C. appreciates the opportunity to submit Work Authorization No. 1 and look forward to working with **Hidalgo County Pct. 4**. If I may be of any additional assistance or any additional information is required, please feel free to contact me at 956-565-0760 or 956-463-2008.

Sincerely,
L&G ENGINEERING LABORATORY, L.L.C.


Ricardo A. Gil
General Manager

Attachments

HIDALGO COUNTY
Professional Engineering Services
Contract # C-11-026-04-12
Work Authorization Form

WORK AUTHORIZATION NO. 1

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 Rogers Rd., Ingle Rd., Mile 11 & Sharp Rd. Construction Projects in Hidalgo County Precinct No. Four (4)**

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 **\$13,592.24**. 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. **01-1200-431-00-124-007-0-731**
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. 4 Commissioner Joseph Palacios as to content and detail of this Work Authorization No. #1.

HIDALGO COUNTY
COMMISSIONER PRECINCT NO. 4:

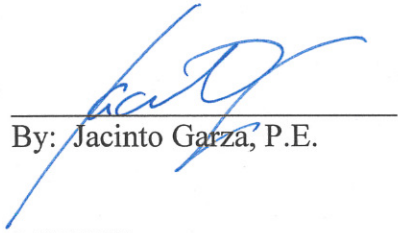
BY: _____

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



By: Jacinto Garza, P.E.

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: Rogers Rd., Ingle Rd., Mile 11 & Sharp Rd. 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 **Rogers, Ingle Rd., Mile 11 & Sharp Rd. Construction Project.**

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

PROJECT: Rogers Rd., Ingle Rd., Mile 11 & Sharp Rd. Construction Projects in Hidalgo County Precinct No. Four (4)

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 **Rogers Rd., Ingle Rd., Mile 11 & Sharp Rd. Construction Projects in Hidalgo County Precinct No. Four (4)**

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: Rogers Rd., Ingle Rd., Mile 11 & Sharp Rd. Construction Projects in Hidalgo County Precinct No. Four (4)

Work Schedule

L&G Engineering Laboratory will provide **Hidalgo County Pct. # 4** with **Construction Materials Testing Services** as outlined in **Contract Agreement C-11-026-04-12**.

Attachment "D"
Rogers Rd., Ingle Rd., Mile 11 Rd., & Sharp Rd.
Prepared for Hidalgo County Pct. 4

Rogers Rd. CMT Fees:	\$2,959.61
Ingle Rd.CMT Fees:	\$2,959.61
Mile 11 Rd. CMT Fees:	\$3,550.74
Sharp Rd. CMT Fees:	\$4,122.28
Total Estimated Fees	\$13,592.24

Attachment "I"
Rogers Rd. (1300 L.F.)
Prepared for Hidalgo County Pct. 4

Subgrade Testing - Laboratory					
Tech Time	2.5	Hrs.	\$45.07	\$112.68	
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	1	Ea.	\$22.23	\$22.23	
Eng. Spec.	0.25	Hr.	\$112.61	\$28.15	
Engineer	0.25	Hr.	\$150.22	\$37.56	
			Sub.	\$479.38	
Subgrade Field Density Testing					
Tech Time	4	Hrs.	\$45.07	\$180.28	based
Trip Charge	40	Mi.	\$0.49	\$19.60	on
Comp. Test	4	Ea.	\$22.53	\$90.12	2
Reports	2	Ea.	\$22.23	\$44.46	trips
Eng. Spec.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$465.88	
Roadway Base Materials Testing - Laboratory					
Tech Time	2.5	Hrs.	\$45.07	\$112.68	
Trip Charge	20	Mi.	\$0.49	\$9.80	
Sieve Analysis	1	Ea.	\$56.28	\$56.28	
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.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$623.60	
Base Material Field Density Testing					
Tech Time	4	Hrs.	\$45.07	\$180.28	based
Trip Charge	40	Mi.	\$0.49	\$19.60	on 2
Comp. Test	4	Ea.	\$22.53	\$90.12	trips
Reports	2	Ea.	\$22.23	\$44.46	
Eng. Spec.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$465.88	
Asphalt Testing-Field and Laboratory					
Tech Time	4	Hrs.	\$55.57	\$222.28	
Trip Charge	40	Mi.	\$0.49	\$19.60	Field
Rolling Patterns	1	Ea.	\$37.56	\$37.56	Asphalt
%AC-Grad	1	Ea.	\$219.04	\$219.04	Testing
Reports	2	Ea.	\$22.23	\$44.46	
Asphalt Thickness	4	Ea.	\$62.63	\$250.52	
Eng. Spec.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$924.88	

Estimated Project Total \$2,959.61

Attachment "I"
Ingle Rd. (1320 L.F.)
Prepared for Hidalgo County Pct. 4

<i>Subgrade Testing - Laboratory</i>					
Tech Time	2.5	Hrs.	\$45.07	\$112.68	
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	1	Ea.	\$22.23	\$22.23	
Eng. Spec.	0.25	Hr.	\$112.61	\$28.15	
Engineer	0.25	Hr.	\$150.22	\$37.56	
			Sub.	\$479.38	
<i>Subgrade Field Density Testing</i>					
Tech Time	4	Hrs.	\$45.07	\$180.28	based
Trip Charge	40	Mi.	\$0.49	\$19.60	on
Comp. Test	4	Ea.	\$22.53	\$90.12	2
Reports	2	Ea.	\$22.23	\$44.46	trips
Eng. Spec.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$465.88	
<i>Roadway Base Materials Testing - Laboratory</i>					
Tech Time	2.5	Hrs.	\$45.07	\$112.68	
Trip Charge	20	Mi.	\$0.49	\$9.80	
Sieve Analysis	1	Ea.	\$56.28	\$56.28	
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.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$623.60	
<i>Base Material Field Density Testing</i>					
Tech Time	4	Hrs.	\$45.07	\$180.28	based
Trip Charge	40	Mi.	\$0.49	\$19.60	on 2
Comp. Test	4	Ea.	\$22.53	\$90.12	trips
Reports	2	Ea.	\$22.23	\$44.46	
Eng. Spec.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$465.88	
<i>Asphalt Testing-Field and Laboratory</i>					
Tech Time	4	Hrs.	\$55.57	\$222.28	
Trip Charge	40	Mi.	\$0.49	\$19.60	Field
Rolling Patterns	1	Ea.	\$37.56	\$37.56	Asphalt
%AC-Grad	1	Ea.	\$219.04	\$219.04	Testing
Reports	2	Ea.	\$22.23	\$44.46	
Asphalt Thickness	4	Ea.	\$62.63	\$250.52	
Eng. Spec.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$924.88	

Estimated Project Total \$2,959.61

Attachment "I"
Mile 11 Rd. (2012 L.F.)
Prepared for Hidalgo County Pct. 4

<i>Subgrade Testing - Laboratory</i>					
Tech Time	2.5	Hrs.	\$45.07	\$112.68	
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	1	Ea.	\$22.23	\$22.23	
Eng. Spec.	0.25	Hr.	\$112.61	\$28.15	
Engineer	0.25	Hr.	\$150.22	\$37.56	
			Sub.	\$479.38	
<i>Subgrade Field Density Testing</i>					
Tech Time	6	Hrs.	\$45.07	\$270.42	based
Trip Charge	60	Mi.	\$0.49	\$29.40	on
Comp. Test	6	Ea.	\$22.53	\$135.18	3
Reports	3	Ea.	\$22.23	\$66.69	trips
Eng. Spec.	0.75	Hr.	\$112.61	\$84.46	
Engineer	0.75	Hr.	\$150.22	\$112.67	
			Sub.	\$698.81	
<i>Roadway Base Materials Testing - Laboratory</i>					
Tech Time	2.5	Hrs.	\$45.07	\$112.68	
Trip Charge	20	Mi.	\$0.49	\$9.80	
Sieve Analysis	1	Ea.	\$56.28	\$56.28	
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.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$623.60	
<i>Base Material Field Density Testing</i>					
Tech Time	6	Hrs.	\$45.07	\$270.42	based
Trip Charge	60	Mi.	\$0.49	\$29.40	on 3
Comp. Test	6	Ea.	\$22.53	\$135.18	trips
Reports	3	Ea.	\$22.23	\$66.69	
Eng. Spec.	0.75	Hr.	\$112.61	\$84.46	
Engineer	0.75	Hr.	\$150.22	\$112.67	
			Sub.	\$698.81	
<i>Asphalt Testing-Field and Laboratory</i>					
Tech Time	4	Hrs.	\$55.57	\$222.28	
Trip Charge	40	Mi.	\$0.49	\$19.60	Field
Rolling Patterns	1	Ea.	\$37.56	\$37.56	Asphalt
%AC-Grad	1	Ea.	\$219.04	\$219.04	Testing
Reports	2	Ea.	\$22.23	\$44.46	
Asphalt Thickness	6	Ea.	\$62.63	\$375.78	
Eng. Spec.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$1,050.14	

Estimated Project Total \$3,550.74

Attachment "I"
Sharp Rd. (2640 L.F.)
Prepared for Hidalgo County Pct. 4

Subgrade Testing - Laboratory					
Tech Time	2.5	Hrs.	\$45.07	\$112.68	
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	1	Ea.	\$22.23	\$22.23	
Eng. Spec.	0.25	Hr.	\$112.61	\$28.15	
Engineer	0.25	Hr.	\$150.22	\$37.56	
			Sub.	\$479.38	
Subgrade Field Density Testing					
Tech Time	8	Hrs.	\$45.07	\$360.56	based
Trip Charge	60	Mi.	\$0.49	\$29.40	on
Comp. Test	8	Ea.	\$22.53	\$180.24	4
Reports	4	Ea.	\$22.23	\$88.92	trips
Eng. Spec.	1	Hr.	\$112.61	\$112.61	
Engineer	1	Hr.	\$150.22	\$150.22	
			Sub.	\$921.95	
Roadway Base Materials Testing - Laboratory					
Tech Time	2.5	Hrs.	\$45.07	\$112.68	
Trip Charge	20	Mi.	\$0.49	\$9.80	
Sieve Analysis	1	Ea.	\$56.28	\$56.28	
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.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$623.60	
Base Material Field Density Testing					
Tech Time	8	Hrs.	\$45.07	\$360.56	based
Trip Charge	60	Mi.	\$0.49	\$29.40	on 3
Comp. Test	8	Ea.	\$22.53	\$180.24	trips
Reports	4	Ea.	\$22.23	\$88.92	
Eng. Spec.	1	Hr.	\$112.61	\$112.61	
Engineer	1	Hr.	\$150.22	\$150.22	
			Sub.	\$921.95	
Asphalt Testing-Field and Laboratory					
Tech Time	4	Hrs.	\$55.57	\$222.28	
Trip Charge	40	Mi.	\$0.49	\$19.60	Field
Rolling Patterns	1	Ea.	\$37.56	\$37.56	Asphalt
%AC-Grad	1	Ea.	\$219.04	\$219.04	Testing
Reports	2	Ea.	\$22.23	\$44.46	
Asphalt Thickness	8	Ea.	\$62.63	\$501.04	
Eng. Spec.	0.5	Hr.	\$112.61	\$56.31	
Engineer	0.5	Hr.	\$150.22	\$75.11	
			Sub.	\$1,175.40	

Estimated Project Total \$4,122.28