



L&G Engineering Laboratory, LLC

2100 W. Expressway 83
 Mercedes, Tx 78570
 (956) 565-0760 • Fax (956) 565-6746

Invoice #

6323

Date
 1/23/2007

Bill To
 Hidalgo County Pct. #1
 Attn: Mr. Joseph Palacios
 1902 Joe Stevens Dr.
 Weslaco, TX 78596

Re:
 Mile 20 Reconstruction Project
 Contract #C-06-308-07-03
 W.A. #1, PO# 577536
 10/26 thru 11/29/07

| | | | |
|-----------------------|----------------------|------------|-----------------|
| Project Number | Report Number | Rep | Due Date |
| 1.155601 | R001 thru R006 | RG | 2/10/2007 |

| Quantity | Item Code | Description | Price Each | Amount |
|----------|-----------|---------------------------------------|------------|--------|
| | | R001 & R002 10/26/06 | | |
| 1 | 91004 | Atterberg Limits Det. (Ea.) | 65.55 | 65.55 |
| 1 | 91009 | M-D ASTM D 698(Ea.) | 169.35 | 169.35 |
| 3 | 94048 | Eng. Tech. (Soils / SP.)(Hr.) | 39.35 | 118.05 |
| 40 | 95058 | Vehicle Trip Charge (Miles)(Mi.) | 0.50 | 20.00 |
| 2 | 95061 | Test Report(Ea.) | 17.50 | 35.00 |
| | | R003 11/3/06 | | |
| 7 | 91011 | Field Density (Nuclear Method)(Ea.) | 19.65 | 137.55 |
| 3 | 94048 | Eng. Tech. (Soils / SP.)(Hr.) | 39.35 | 118.05 |
| 40 | 95058 | Vehicle Trip Charge (Miles)(Mi.) | 0.50 | 20.00 |
| 1 | 95061 | Test Report(Ea.) | 17.50 | 17.50 |
| | | R004 & R005 11/6/06 | | |
| 1 | 91009 | M-D ASTM D 698(Ea.) | 169.35 | 169.35 |
| 1 | 91014 | Sieve Analysis (Dry & 4 Sieve)(Ea.) | 49.15 | 49.15 |
| 1 | 91017 | Texas Wet Ball Mill Test(Ea.) | 169.35 | 169.35 |
| 3 | 94048 | Eng. Tech. (Soils / SP.)(Hr.) | 39.35 | 118.05 |
| 40 | 95058 | Vehicle Trip Charge (Miles)(Mi.) | 0.50 | 20.00 |
| 2 | 95061 | Test Report(Ea.) | 17.50 | 35.00 |
| | | R006 11/29/07 | | |
| 7 | 91011 | Field Density (Nuclear Method)(Ea.) | 19.65 | 137.55 |
| 2.5 | 94048 | Eng. Tech. (Soils / SP.)(Hr.) | 39.35 | 98.38 |
| 40 | 95058 | Vehicle Trip Charge (Miles)(Mi.) | 0.50 | 20.00 |
| 1 | 95061 | Test Report(Ea.) | 17.50 | 17.50 |

COMMISSIONER JOSEPH S. HANDY

Total

\$1,535.38

L&G Engineering appreciates the opportunity to serve your material testing needs.

Highway / Civil • Structural / Bridge • Environmental • Construction Material Testing

2222
101533

HIDALGO COUNTY
Professional Engineering Services
Contract # C-06-308-07-03
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 the Mile 20 Reconstruction 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 \$ 4,084.05. 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. 10-1201-431-00-121-005-0-731
 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. 1 Commissioner Sylvia Handy as to content and detail of this Work Authorization No. # 01.

HIDALGO COUNTY
COMMISSIONER PRECINCT NO. 1:

BY: Sylvia Handy

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on Oct. 24, 2006 as indicated below and effective as of 24th day of October, 2006.

THE ENGINEER:
I.&G ENGINEERING LABORATORY, LLC

THE OWNER:
HIDALGO COUNTY

Jacinto Garza
By: Jacinto Garza

Ramon Garcia
By: Ramon Garcia, County Judge

ATTEST

HIDALGO COUNTY COMMISSIONERS' COURT
Oct. 24, 2006

Eddy Trevino
by: Eddy Trevino-Acting 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 20 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 **Mile 20 Reconstruction Project**.

ATTACHMENT "B"
Scope of Services (Engineer)

PROJECT Mile 20 Reconstruction 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 20 Reconstruction 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 20 Reconstruction Project in Hidalgo County Precinct No. One (1)

Work Schedule

L&G Engineering Laboratory will provide Hidalgo County Pet. # 1 with Construction Materials Testing Services as outlined in Contract Agreement C-06-308-07-03.

ATTACHMENT "D"
Cost Proposal

***PROJECT* Mile 20 Reconstruction Project in Hidalgo County Precinct No. One (1).**

See Attached

L & G Engineering Laboratory

Construction Material Testing
Geotechnical Engineering

Attachment I
Mile 20 (5,250 L.F. of Rdwy)
Prepared For Hidalgo County Pct. No. 1

| In Situ Subgrade Laboratory Testing | | | | | | |
|---|-----|------|----------|-------------------|--|--|
| Tech Time | 3 | Hrs. | \$39.35 | \$118.05 ✓ | | based on 1 trip and 1 sample for MD Det & Atterberg Limits |
| Trip Charge | 40 | Mi | \$0.50 | \$20.00 ✓ | | |
| Proctor | 1 | Ea. | \$169.35 | \$169.35 ✓ | | |
| Atterberg | 1 | Ea. | \$65.55 | \$65.55 ✓ | | |
| Reports | 2 | Ea. | \$17.50 | \$35.00 ✓ | | |
| Sub. | | | | \$407.95 | | |
| In Situ Subgrade Field Density Testing | | | | | | |
| Tech Time | 10 | Hrs. | \$39.35 | \$393.50 | | based on 4 trips to perform field density testing on subgrade |
| Trip Charge | 160 | Mi | \$0.50 | \$80.00 | | |
| Comp. Test | 16 | Ea. | \$19.65 | \$314.40 | | |
| Reports | 4 | Ea. | \$17.50 | \$70.00 | | |
| Sub. | | | | \$857.90 | | |
| Roadway Base Material Testing Laboratory | | | | | | |
| Tech Time | 3 | Hrs. | \$39.35 | \$118.05 ✓ | | based on 1 trips to pick up one base mtl sample |
| Trip Charge | 40 | Mi. | \$0.50 | \$20.00 ✓ | | |
| Sieve Analysis | 1 | Ea. | \$49.15 | \$49.15 ✓ | | |
| Texas Wet Bell Mill | 1 | Ea. | \$191.25 | \$191.25 | | |
| Moisture-Density Determ | 1 | Ea. | \$169.35 | \$169.35 ✓ | | |
| Reports | 2 | Ea. | \$17.50 | \$35.00 ✓ | | |
| Sub. | | | | \$582.80 | | |
| Base Material Field Density Testing | | | | | | |
| Tech Time | 10 | Hrs. | \$39.35 | \$393.50 | | based on 4 trips to perform field density testing on Caliche |
| Trip Charge | 160 | Mi | \$0.50 | \$80.00 | | |
| Comp Test | 16 | Ea. | \$19.65 | \$314.40 | | |
| Reports | 4 | Ea. | \$17.50 | \$70.00 | | |
| Sub. | | | | \$857.90 | | |
| Asphalt Testing Field and Laboratory | | | | | | |
| Tech Time | 10 | Hrs. | \$50.25 | \$502.50 | | based on 2 trips to perform asphalt rolling patterns, secure samples for laboratory testing |
| Trip Charge | 80 | Mi | \$0.50 | \$40.00 | | |
| Rolling Patterns | 2 | Ea. | \$32.80 | \$65.60 | | |
| Laboratory Molded (ga) | 2 | Ea. | \$60.10 | \$120.20 | | |
| %AC-Grad | 2 | Ea. | \$191.25 | \$382.50 | | |
| Rice Gravity (gr) | 2 | Ea. | \$98.35 | \$196.70 | | |
| Reports | 4 | Ea. | \$17.50 | \$70.00 | | |
| Sub. | | | | \$1,377.50 | | |

Total Estimated Materials Testing Fees

\$4,084.05

L & G Engineering Laboratory

Construction Material Testing Geotechnical Engineering

Attachment I Mile 20 (5,250 L.F. of Rdwy) Prepared For Hidalgo County Pct. No. 1

| <i>In Situ Subgrade Laboratory Testing</i> | | | | | |
|--|-----|------|----------|-------------------|--|
| Tech Time | 3 | Hrs. | \$39.35 | \$118.05 | based on 1 trip and 1 sample for MO Det & Atterberg Limits |
| Trip Charge | 40 | Mi | \$0.50 | \$20.00 | |
| Proctor | 1 | Ea. | \$169.35 | \$169.35 | |
| Atterberg | 1 | Ea. | \$65.55 | \$65.55 | |
| Reports | 2 | Ea. | \$17.50 | \$35.00 | |
| Sub. | | | | \$407.95 | |
| <i>In Situ Subgrade Field Density Testing</i> | | | | | |
| Tech Time | 10 | Hrs. | \$39.35 | \$393.50 | based on 4 trips to perform field density testing on subgrade |
| Trip Charge | 160 | Mi | \$0.50 | \$80.00 | |
| Comp. Test | 16 | Ea. | \$19.65 | \$314.40 | |
| Reports | 4 | Ea. | \$17.50 | \$70.00 | |
| Sub. | | | | \$857.90 | |
| <i>Roadway Base Materials Testing Laboratory</i> | | | | | |
| Tech Time | 3 | Hrs. | \$39.35 | \$118.05 | based on 1 trips to pick up one base mtl sample |
| Trip Charge | 40 | Mi. | \$0.50 | \$20.00 | |
| Sieve Analysis | 1 | Ea. | \$49.15 | \$49.15 | |
| Texas Wet Ball Mill | 1 | Ea. | \$191.25 | \$191.25 | |
| Moisture-Density Determ | 1 | Ea. | \$169.35 | \$169.35 | |
| Reports | 2 | Ea. | \$17.50 | \$35.00 | |
| Sub. | | | | \$582.80 | |
| <i>Base Material Field Density Testing</i> | | | | | |
| Tech Time | 10 | Hrs. | \$39.35 | \$393.50 | based on 4 trips to perform field density testing on Caliche |
| Trip Charge | 160 | Mi | \$0.50 | \$80.00 | |
| Comp. Test | 16 | Ea. | \$19.65 | \$314.40 | |
| Reports | 4 | Ea. | \$17.50 | \$70.00 | |
| Sub. | | | | \$857.90 | |
| <i>Asphalt Testing Field and Laboratory</i> | | | | | |
| Tech Time | 10 | Hrs. | \$50.25 | \$502.50 | based on 2 trips to perform asphalt rolling patterns, secure samples for laboratory testing |
| Trip Charge | 80 | Mi | \$0.50 | \$40.00 | |
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| Laboratory Molded (ga) | 2 | Ea. | \$60.10 | \$120.20 | |
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| Rice Gravity (gr) | 2 | Ea. | \$98.35 | \$196.70 | |
| Reports | 4 | Ea. | \$17.50 | \$70.00 | |
| Sub. | | | | \$1,377.50 | |

Total Estimated Materials Testing Fees

\$4,084.05

**SYLVIA S. HANDY
COUNTY COMMISSIONER, PCT. 1**

**(956) 968-8733 FAX(956) 973-7804
1902 JOE STEPHENS AVE.
Weslaco, Texas 78596**

FAX COVERSHEET

To: Letty **From:** Veronica

Fax: **Pages:** 11

Phone: **Date:** 2/07/07

Re: **CC:**

Urgent **For Review** **Please Comment** **Please Reply** **Please Recycle**

• Comments

Please place L&G Consulting Engineers Inc. Invoice #6323 on the next CC Agenda for payment approval.
C-06-308-07- 03 PO#577536 "Work Auth. No. 1"
Materials Testing Services for the Mile 20 Reconstruction project.

NOTICE OF CONFIDENTIALITY

THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPY OF THIS TELECOPY IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS TELECOPY IN ERROR, PLEASE IMMEDIATELY NOTIFY US BY TELEPHONE AND RETURN THIS MESSAGE TO US AT THE ABOVE ADDRESS VIA THE UNITED STATES POSTAL SERVICE. THANK YOU.