

Requisition

Req # 00300676

PO # 746888

Date: 06/16/16

Bill To: x
x

Vendor: 280046
L & G CONSULTING ENGINEERS, INC.
2100 W. EXPRESSWAY 83
MERCEDDES TX 78570
FAX (956)565-6746

Ship To: HIDALGO CO. PCT 4
1051 N. DOOLITTLE
EDINBURG TX 78542

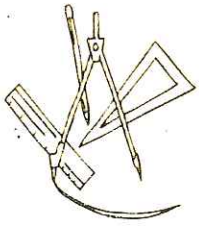
Contact: NICK PEREZ
956-383-3112

Contract No:

Special Instructions:
PCT#785

| QUANTITY | UOM | DESCRIPTION | UNIT PRICE | AMOUNT |
|----------|-----|---|--|--|
| 1.00 | LOT | C-15-301-09-15 (EXP-09-14-2016) FOR: "Construction Material Testing" for: "Concrete Walking Trail at San Carlos (CRC) & Sunflower Park" AI-55056 DATE 6-20-16 DO NOT DUPLICATE ORDER CC Work Authorization No. 5 - L&G Engineering for Project: "Construction Material Testing" for: "Concrete Walking Trail at San Carlos (CRC) & Sunflower Park" for Hidalgo County Precinct No. 4 Account No _____ 6-1345-419-40-124-123-0-740 | 11,351.46 <u>Encumbrance</u> 11,351.46 Freight .00 Total | 11,351.46 11,351.46 |

Authorized By: _____



L&G Consulting Engineers, Inc.

December 22, 2016



Commissioner Joseph Palacios
Attn: Maria "Lulu" Lucio
Hidalgo County Precinct No. 4
1102 N. Doolittle Rd.
Edinburg, TX 78539

RE: San Carlos CRC Sunflower Walking Trail & Sunflower Park
Contract No. # C-15-301-09-15 - Work Authorization #5
Project No. # E130603
P.O. # 746888

Dear Ms. Lucio:

Attached for your review and approval is our invoice for the services rendered under Work Authorization #5 on the subject referenced project for the month of December.

The following is attached:

- L&G's Invoice # 16-12-000001
- Test Reports and progress letters as prepared and forwarded to Pct. No. 4 and all parties involved on the project.

Should you have any questions regarding this submittal or would like clarification on any aspect of the project, please do not hesitate to call me at (956) 565-0760.

Sincerely,

Ricardo A. Gil
General Manager
Laboratory Operations

2100 W. Expressway 83
Mercedes, TX 78570
Office (956) 565-0760 Fax (956) 565-6746
Client Address: Hidalgo County Pct. #4
 Maria Lucio, Program Manager
 1102 N. Doolittle Rd.
 Edinburg, TX. 78539

Account No.: E130

Project No: E130603

Project Desc.: San Carlos CRC Sunflower Park Concrete
 Walking Trail (WA #5)

Due Date: UPON RECEIPT

Budget/Remaining: \$11,351.46 / \$9,234.19 ✓

PO: 746888

===== Invoice Summary by Billing Code =====

| | <u>Unit Rate</u> | <u>Qty</u> | <u>Extension</u> |
|---|------------------|------------|------------------|
| 920:92033 - Air Content (Pressure Method) | \$24.58 | 1.00 | \$24.58 |
| 920:92034 - Comp. Strength of Cyl. Specimen | \$16.40 | 2.00 | \$32.80 |
| 940:94047 - Eng. Tech. (Concrete / Lab) | \$52.88 | 0.50 | \$26.44 |
| 940:94050 - Eng. Tech. (Concrete) | \$52.88 | 6.00 | \$317.28 |
| 940:94054 - Engineering Specialist (Lab Mgr.) | \$105.76 | 0.50 | \$52.88 |
| 940:94055 - Engineer / P.E. | \$133.76 | 0.50 | \$66.88 |
| 950:95058 - Vehicle Trip Charge | \$0.55 | 56.00 | \$30.80 |
| 950:95060 - Administrative / Clerical | \$62.21 | 1.00 | \$62.22 |
| 950:95061 - Test Report | \$24.30 | 2.00 | \$48.60 |
| Total for this Invoice: | | | \$662.48 |

===== Invoice Detail by Report =====

| <u>Report No.</u> | <u>Sampled</u> | <u>Qty</u> | <u>Billing Code</u> | <u>Unit Type</u> | <u>Unit Rate</u> | <u>Extension</u> |
|--|----------------|------------|---|------------------|------------------|------------------|
| R005 | 11/18/2016 | 1.00 | 920:92033 - Air Content (Pressure Method) | Each | \$24.58 | \$24.58 |
| R005 | 11/18/2016 | 6.00 | 940:94050 - Eng. Tech. (Concrete) | Hour | \$52.88 | \$317.28 |
| R005 | 11/18/2016 | 0.25 | 940:94054 - Engineering Specialist (Lab Mgr.) | Hour | \$105.76 | \$26.44 |
| R005 | 11/18/2016 | 0.25 | 940:94055 - Engineer / P.E. | Hour | \$133.76 | \$33.44 |
| R005 | 11/18/2016 | 56.00 | 950:95058 - Vehicle Trip Charge | Mile | \$0.55 | \$30.80 |
| R005 | 11/18/2016 | 0.50 | 950:95060 - Administrative / Clerical | Hour | \$62.21 | \$31.11 |
| R005 | 11/18/2016 | 1.00 | 950:95061 - Test Report | Each | \$24.30 | \$24.30 |
| <i>Report Number R005 for a Subtotal of:</i> | | | | | | \$487.95 |

REMIT TO:2100 W. Expressway 83
Mercedes, TX 78570
Office (956) 565-0760 Fax (956) 565-6746
Net 30 Days
PAST DUE BALANCES SUBJECT TO 1.5% SERVICE CHARGE PER MONTH
PLEASE REFERENCE INVOICE NUMBER WITH PAYMENT

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

===== Invoice Detail by Report =====

| <u>Report No.</u> | <u>Sampled</u> | <u>Qty</u> | <u>Billing Code</u> | <u>Unit Type</u> | <u>Unit Rate</u> | <u>Extension</u> |
|---------------------------------------|----------------|------------|---|------------------|------------------|------------------|
| R006 | 11/18/2016 | 2.00 | 920:92034 - Comp. Strength of Cyl. Specimen | Each | \$16.40 | \$32.80 |
| R006 | 11/18/2016 | 0.50 | 940:94047 - Eng. Tech. (Concrete / Lab) | Each | \$52.88 | \$26.44 |
| R006 | 11/18/2016 | 0.25 | 940:94054 - Engineering Specialist (Lab Mgr.) | Hour | \$105.76 | \$26.44 |
| R006 | 11/18/2016 | 0.25 | 940:94055 - Engineer / P.E. | Hour | \$133.76 | \$33.44 |
| R006 | 11/18/2016 | 0.50 | 950:95060 - Administrative / Clerical | Hour | \$62.21 | \$31.11 |
| R006 | 11/18/2016 | 1.00 | 950:95061 - Test Report | Each | \$24.30 | \$24.30 |
| Report Number R006 for a Subtotal of: | | | | | | \$174.53 |
| Total for this Invoice: | | | | | | \$662.48 |

INVOICE RECEIVED BY:
Jack Piz ON 12/22/16
 GOODS/SERVICES RECEIVED BY:
 ON

6-1345-4A-40-124-123-0-740
 Pct. # 785
 Pur. Req. # 300676
 P.O. # 746888

REMIT TO: 2100 W. Expressway 83
 Mercedes, TX 78570
 Office (956) 565-0760 Fax (956) 565-6746

Net 30 Days

PAST DUE BALANCES SUBJECT TO 1.5% SERVICE CHARGE PER MONTH
 PLEASE REFERENCE INVOICE NUMBER WITH PAYMENT

REPORT OF SITE VISIT TEST REPORT

Project Description: San Carlos CRC Sunflower Park Concrete Walking Trail (WA #5) L&G Project Number: E130603
Client: Hidalgo County Pct. #4 L&G Report Number: R005
Sample Date: 11/18/2016
Date Reported: 11/18/2016

Client PO: 746888

Page 1 of 1

On November 18, 2016 a representative of L&G Engineering Laboratory was dispatched to San Carlos CRC Walking Trail to perform inspection on the placement of ready-mixed concrete on Walking Trail.

Specimen Number 1 was obtained and tested at 12:30 PM, and the following were determined:

| | | | |
|----------------------------|---------------|--|---------------|
| Concrete Temp: 89°f | N/A | Entrapped/Entrained Air Content: 3.4% | N/A |
| | Specification | | Specification |
| Ambient Temp: 85°f | N/A | Slump: 6 1/2 inches | N/A |
| | Specification | | Specification |

From Specimen Number 1, a total of 4 6X12 cylindrical test specimens were cast for Compressive Strength Testing at intervals of 7 and 28 days.

On November 21, 2016 a representative of L&G Engineering Laboratory was dispatched to the referenced project to collect the cylindrical specimens cast on the placement of ready-mixed concrete on Walking Trail. The specimens were delivered to the laboratory where they were stripped, labeled, and placed in a curing tank for testing at intervals of 7 and 28 days.

Test Methods (If Applicable): ASTM C-231, ASTM C-143, ASTM C-1064, ASTM C-31, ASTM C-172

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

CONCRETE COMPRESSION TEST REPORT

Project Description: San Carlos CRC Sunflower Park Concrete Walking Trail (WA #5) L&G Project Number: E130603
 Client: Hidalgo County Pct. #4 L&G Report Number: R006
 Sample Date: 11/18/2016
 Date Reported: 11/25/2016

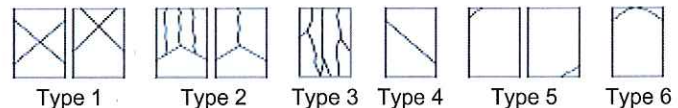
Client PO: 746888

Page 1 of 1

Placement Location: Southwest Side of Walking Trail
 Mix ID: 1421476 Supplier: CEMEX
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: N/A Slump: 6.5"
 Specified Air Content: N/A Air Content: 3.3%
 Weather Conditions: Sunny & Windy Air Temp.: 85°F
 Time Batched: 11:48 am Time Sampled: 12:30 pm Concrete Temp.: 89°F
 Plant Ticket No: 43912313 Truck No: 10035527 CY: 10
 Water: 5 gal.

Compressive Strength Data

| Set No. | Identification | Test Date | Age (days) | Maximum Load (pounds) | Break Type | Comp. Strength (psi) | Average Strength (psi) | % of Design |
|---------|----------------|------------|------------|-----------------------|------------|----------------------|------------------------|-------------|
| 1 | A | 11/25/2016 | 7 | 52,455 | Type 5 | 1,860 | 1,800 | 62.00% |
| | B | 11/25/2016 | 7 | 49,210 | Type 5 | 1,740 | | 58.00% |


Remarks/Comments:

6 x 12 in. Cylinders

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



Ricardo A. Gil, Lab Manager

Billy Ortiz

From: Rick Gil
Sent: Friday, November 18, 2016 9:29 AM
To: Billy Ortiz
Subject: Fwd: WA5-L&G Eng-(CMT)Concrete Walking Trail at San Carlos CRC - Sunflower Park-Pct 4 Request for Testing

Sent from my iPhone

Begin forwarded message:

From: Maria Lucio <maria.lucio@co.hidalgo.tx.us>
Date: November 18, 2016 at 9:18:44 AM CST
To: Rick Gil <rgil@lgengineers.com>
Cc: steven cruz <steven.cruz@co.hidalgo.tx.us>, roman rodriguez <roman.rodriguez@co.hidalgo.tx.us>, Manuel Leal <mleal.gandg@gmail.com>, Emigdio Salinas <milo@lefevregroup.net>, Hector Moreno <hector@lefevregroup.net>
Subject: WA5-L&G Eng-(CMT)Concrete Walking Trail at San Carlos CRC - Sunflower Park-Pct 4 Request for Testing

Good Morning Rick,

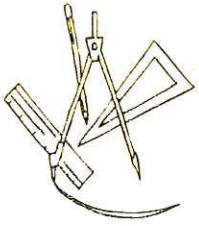
As per your on call contract C-15-301-09-15 (Work Authorization #5 for **CMT services to Project: Concrete Walking Trail at (San Carlos CRC) Sunflower Park** within **Pct 4**, we would like to request the following:

1. Concrete Testing for the walking trails for the Sunflower Park Project.

Please let this email serve as the formal request to begin today at 10:30am we will have a representative out there. Should you have any questions or need anything else please let me know. Thank you!

Respectfully,

Lulu Lucio, CPM
Executive Assistant
Hidalgo County Precinct #4
Ph: 956- 292-7000 Ext. 4026
Fax:956-381-5905
maria.lucio@co.hidalgo.tx.us



L&G Consulting Engineers, Inc.

December 22, 2016



Commissioner Joseph Palacios
Attn: Maria "LuLu" Lucio
Hidalgo County, Pct. #4
1102 N. Doolittle Rd.
Edinburg, Texas 78539

RE: San Carlos CRC Sunflower Park Concrete Walking Trail (WA #5)

Dear Ms. Lucio:

Included for your use with this letter, are test reports **R005 thru R006** for **Construction Material Testing** performed on the above referenced project. Unless otherwise noted, all test results meet or exceed requirements. Also included for your information, is an invoice for the services provided.

L&G Engineering appreciates the opportunity to serve your material testing needs on this project and we look forward to working with you in the future.

If you have any questions, feel free to contact me at 956-565-0760.

Sincerely,

Ricardo A. Gil
General Manager

Attachments

CC: Vanguard Engineering

CONTRACT RATES

GEOTECHNICAL & CONSTRUCTION MATERIALS TESTING SERVICES

Direct Expenses

| <u>Geotechnical Field Services</u> | <u>2015</u> | <u>2016</u> |
|--|--------------|--------------|
| Mobilization (Drill Rig and Crew) | \$441.66/Day | \$454.91/Day |
| Stand-By Time | \$194.18/Hr. | \$200.01/Hr |
| Texas Cone Penetration Test (Tex-132) | \$5.55/Ea. | \$5.72/Ea. |
| Soil Boring / Solid Stem | \$31.08/Lf | \$32.01/Lf |
| Soil Boring / Hollow Stem | \$31.08/Lf | \$32.01/Lf |
| Soil Boring / Mud Rotary | \$31.08/LF | \$32.01/Lf |
| Mileage (Logger-Soil Tech) | \$.55/Mi. | \$.55/Mi. |
| Support Truck | \$1.65/Mi. | \$1.70/Mi. |
| Piezometer / Monitoring Well | By Quote | By Quote |
| | | |
| <u>Soil Testing</u> | <u>2015</u> | <u>2016</u> |
| Moisture Content Determination - ASTM D2216/Tex-103-E | \$10.55/Ea. | \$10.87/Ea. |
| Determination of Liquid Limit of Soils - Tex-104-E | \$53.15/Ea. | \$54.74/Ea. |
| Determination of Plastic Limit of Soils - Tex-105-E | \$53.37/Ea. | \$54.97/Ea. |
| Atterberg Limits of Soils - ASTM D 4318/Tex-106-E | \$79.66/Ea. | \$82.05/Ea. |
| Bar Linear Shrinkage of Soils - Tex-107-E | \$66.47/Ea. | \$68.46/Ea. |
| Particle Size Analysis of Soils (Gradation) - ASTM D 422/Tex-110-E | \$95.76/Ea. | \$98.63/Ea. |
| Material Finer #200 Sieve - ASTM D 1140/Tex-111-E | \$66.47/Ea. | \$68.46/Ea. |
| Lime Series Testing (PI Relation) - Tex-112-E | \$477.96/Ea. | \$492.30/Ea. |
| Lime Series Testing (pH Relation) - Tex-121-E (Part III) | \$518.40/Ea. | \$533.95/Ea. |
| Moisture-Density Relationship (TxDOT) - Tex-113-E /Tex-114-E | \$212.59/Ea. | \$218.97/Ea. |
| Standard Proctor - ASTM D 698 | \$205.82/Ea. | \$211.99/Ea. |
| Modified Proctor - ASTM D 1557 | \$212.50/Ea. | \$218.88/Ea. |
| Field Density Test (Nuclear) - ASTM D 6938/Tex-115-E | \$23.91/Ea. | \$24.63/Ea. |
| Determination of Soil pH - Tex-128-E | \$86.40/Ea. | \$88.99/Ea. |
| Soil-Lime Testing - Tex-121-E (Part I) | \$159.44/Ea. | \$164.22/Ea. |
| Resistivity of Soils - Tex-129-E | \$96.65/Ea. | \$99.55/Ea. |
| Sulfate Content of Soils - Tex-145-E | \$86.40/Ea. | \$88.99/Ea. |
| Texas Wet Ball Mill (Material Quality) - Tex-116-E | \$232.55/Ea. | \$239.53/Ea. |
| Triaxial Compression (Dist. Soil & Base) - Tex-117-E | \$350.00/Ea. | \$360.50/Ea. |
| Unconfined Compression-Soil - ASTM D 2166 | \$49.95/Ea. | \$51.45/Ea. |
| Uniaxial Compression-Rock - ASTM D 7012 | \$53.27/Ea. | \$54.87/Ea. |
| Consolidation Test - ASTM D 2435 | \$521.51/Ea. | \$537.16/Ea. |
| | | |
| <u>Coarse & Fine Aggregate Quality Testing</u> | <u>2015</u> | <u>2016</u> |
| Sieve Analysis (Dry)(4 Sieves) - ASTM C 136/Tex-200-F | \$59.73/Ea. | \$61.52/Ea. |
| Sieve Analysis (Washed)(4 Sieve) - ASTM C 136/Tex-200-F | \$72.27/Ea. | \$74.44/Ea. |
| Sieve Analysis (Conc. Aggregate)(5 Sieve) - Tex-401-A | \$85.00/Ea. | \$87.55/Ea. |
| Sieve Analysis (Additional Sieves) - All Methods | \$13.31/Ea. | \$13.71/Ea. |
| Deleterious Material (Coarse Aggr.) - Tex-217-F (Part I) | \$46.50/Ea. | \$47.90/Ea. |
| Deleterious Material (Concrete Aggr.) - Tex-413-A | \$46.50/Ea. | \$47.90/Ea. |
| Decantation (Coarse Aggr.) - Tex-217-F (Part II) | \$46.50/Ea. | \$47.90/Ea. |
| Decantation Test (Fine Aggr. - Conc.) - ASTM C 117/Tex-406-A | \$46.50/Ea. | \$47.90/Ea. |
| Specific Gravity/Absorp. (Conc. Aggr) - ASTM C127/Tex-403-A | \$72.99/Ea. | \$75.18/Ea. |
| L.A. Abrasion - ASTM C13/ Tex-410-A | \$564.55/Ea. | \$581.49/Ea. |
| Soundness (5 Cycle Magnesium Sulfate) - ASTM C 88/Tex-411-A | \$564.55/Ea. | \$581.49/Ea. |
| SSD Unit Weight of Aggregates - ASTM C29/Tex-404-A | \$66.47/Ea. | \$68.46/Ea. |
| Percent Voids/Solids in Conc. Aggr. - Tex-405-A | \$13.25/Ea. | \$13.65/Ea. |
| *(In Conjunction w/ SSD Unit Wt of Aggregates) | | |

CONTRACT RATES

| | | |
|--|-------------|-------------|
| Sand Equivalent - ASTM D 2419/Tex-203-F | \$72.99/Ea | \$75.18/Ea |
| Specific Gravity / Absorption (Fine Aggr.) - ASTM C 128/Tex -403-A | \$79.67/Ea. | \$82.06/Ea. |
| Organic Impurities in Fine Aggregate -ASTM C 87/Tex -408-A | \$46.50/Ea. | \$47.90/Ea. |
| Fineness Modulus of Fine Aggregate - Tex-402-A | \$15.95/Ea. | \$16.43/Ea. |
| Flat & Elongated Particles (Coarse Aggr.) - Tex-280-F | \$60.00/Ea. | \$61.80/Ea. |
| Coarse Aggr. Crushed Face (Coarse Aggr.) - Tex-460-A (Part I) | \$80.00/Ea. | \$82.40/Ea. |
| Acid Insoluble of Fine Aggregate - Tex-612-J | \$86.40/Ea. | \$88.99/Ea. |

Pavement Testing (Mix & Roadway) / Asphalt Quality

| | <u>2015</u> | <u>2016</u> |
|---|--------------|--------------|
| Sieve Analysis (Paving Mix Gradation) - Tex-236-F/Tex-200-F | \$90.00/Ea. | \$92.70/Ea. |
| Asphalt Content - Tex-236-F | \$90.00/Ea. | \$92.70/Ea. |
| Voids in Mineral Aggr. (VMA) - Tex-207-F | \$110.00/Ea. | \$113.30/Ea. |
| Boil Test (Effect of Water on Paving Mix) - Tex-530-C/Tex-531-C | \$86.40/Ea. | \$88.99/Ea. |
| Indirect Tensile Strength Test - Tex-226-F | \$600.00/Ea. | \$618.00/Ea. |
| Moisture Content (Paving Mix) - Tex-212-F (Part II) | \$15.00/Ea. | \$15.45/Ea |
| Lab Molded Density - Tex-207-F | \$80.00/Ea. | \$82.40/Ea. |
| Hamburg Wheel Tracker - Tex-242-F | \$900.00/Ea. | \$927.00/Ea. |
| Field Coring – ACP Thickness - ASTM D 3549 | \$66.47/Ea. | \$68.46/Ea. |
| Pavement Thickness Det. (Full Depth) - ASTM D 3549 | \$88.45/Ea. | \$91.10/Ea. |
| Density of Cores (4 or 6 inch) (Set of 2) - Tex-207-F | \$73.04/Ea. | \$75.23/Ea. |
| In-Place Air Voids - Tex-207-F | \$25.00/Ea. | \$25.75/Ea. |
| Maximum Theoretical SPG (Rice Gravity) - Tex-227-F | \$90.00/Ea. | \$92.70/Ea. |
| Extraction/Sieve Analysis/Asphalt Content - Tex-210-F/Tex-200-F | \$232.48/Ea. | \$239.45/Ea. |
| Asphalt Rolling Pattern (Nuclear Method) - Tex-207-F (Part IV) | \$39.86/Ea. | \$41.06/Ea. |
| Segregation Profile - Tex-207-F (Part V) | \$300.00/Ea. | \$309.00/Ea. |
| Joint Density - Tex-207-F (Part VII) | \$300.00/Ea. | \$309.00/Ea. |
| Tack Coat Adhesion - Tex-243-F | \$100.00/Ea. | \$103.00/Ea. |
| Thermal Profile - Tex-244-F | \$175.00/Ea. | \$180.25/Ea. |
| Ride Quality - Tex-1001-S | By Quote | By Quote |

Pavement Investigation (All Inclusive – QA Verification Field Sample) –

| | | |
|--|--------------|--------------|
| Includes Core Exist. Asphalt for Thick. Perform Caliche Base Thick., Sieve Analysis & P.I., Stabilized Subgrade Thickness & P.I | \$498.08/Ea. | \$513.02/Ea. |
|--|--------------|--------------|

Concrete/Masonry Field & Laboratory Testing

| | <u>2015</u> | <u>2016</u> |
|--|--------------|--------------|
| Temperature Test (Fresh Mix Conc.) - Tex-422-A | No Charge | No Charge |
| Slump Test - ASTM C 143/Tex-415-A | No Charge | No Charge |
| Air Content (Pressure Method) - ASTM C 138/Tex-416-A | \$23.86/Ea. | \$24.58/Ea. |
| Air Content (Volumetric) - ASTM C 173 | \$26.56/Ea. | \$27.36/Ea. |
| Casting of Concrete Cylinders - ASTM C 31/Tex-447-A | No Charge | No Charge |
| Cylindrical Specimen Prep./Hold/Cure - ASTM C 192/ Tex-447-A | \$12.00/Ea. | \$12.36/Ea. |
| Compressive Strength of Cyl. Specimen - ASTM C 39/Tex-418-A | \$15.92/Ea. | \$16.40/Ea. |
| Casting of Grout Prisms - ASTM C 1019 | No Charge | No Charge |
| Grout Prism Prep./Cure/Comp. Strength - ASTM C 39 | \$33.23/Ea. | \$34.23/Ea. |
| Casting of Mortar Cubes - ASTM C 780 | No Charge | No Charge |
| Mortar Cube Prep./Cure/Comp. Strength - ASTM C 109 | \$32.48/Ea. | \$33.45/Ea. |
| Masonry Unit Prep. /Comp. Str. (Set of 3) - ASTM C 140 | \$232.41/Ea. | \$239.38/Ea. |
| Masonry Unit SPG/Abs./Unit Wt. (Set of 3) - ASTM C 140 | \$232.41/Ea. | \$239.38/Ea. |

*(In Conjunction w/ Field Inspection)

CONTRACT RATES

Miscellaneous Testing

| | <u>2015</u> | <u>2016</u> |
|--|-------------|-------------|
| Drilled Shaft Slurry Density - Tex-130-E (Part II) | \$25.00/Ea. | \$25.75/Ea. |
| Drilled Shaft Slurry Sand Content - Tex-130-E (Part III) | \$20.00/Ea. | \$20.60/Ea. |
| Drilled Shaft Slurry Viscosity - Tex-130-E (Part IV) | \$25.00/Ea. | \$25.76/Ea. |

Engineering Review, Evaluation, Management & Administration

| | | |
|-------------|-------------|-------------|
| Test Report | \$23.59/Ea. | \$24.30/Ea. |
|-------------|-------------|-------------|

The specific hourly rate within each classification listed under Labor/Staff Classification depends on the experience, training, and qualifications of the personnel. A two (2) hour minimum billing at the applicable rate will be assessed per visit to project site.

Services provided on Saturday, Sunday and all work in excess of "normal" work hours will be invoiced at an overtime rate 1.5 times the applicable rate for the work performed. The cost of services is based upon the assumption that services will be provided during "normal" working hours. Normal working hours are between 7:00 a.m. and 6:00 p.m., Monday through Friday.

Expenses:

| | | |
|--------------|---------|---------|
| Mileage..... | .55/Mi. | .55/Mi. |
|--------------|---------|---------|

All other project specific, third-party costs will be charged at cost plus 10 percent.

Attachment "D"
L&G Engineering
Concrete Walking Trail at San Carlos CRC & Sunflower Park
Prepared for Hidalgo County Precinct No. 4

| <i>In-Situ/Soils/Select/Fill/Testing/Laboratory</i> | | | | | |
|--|-----|-----|----------|-------------------|---|
| Standard Proctor | 3 | Ea. | \$211.99 | \$635.97 | <i>In Situ Subgrade Moisture-Density Testing on the following:</i> |
| Atterberg Limits of Soils | 3 | Ea. | \$82.05 | \$246.15 | |
| Material Finer #200 | 3 | Ea. | \$68.46 | \$205.38 | |
| Test Report | 3 | Ea. | \$24.30 | \$72.90 | <i>Walking Trail Subgrade Walking Trail Select Fill</i> |
| Technician (Soils) | 9 | Hr. | \$52.88 | \$475.92 | |
| Mileage (Trip Charge) | 120 | Mi. | \$0.55 | \$66.00 | |
| Subtotal: | | | | \$1,702.32 | |
| <i>In-Situ/Soils/Select/Fill/Testing/Field</i> | | | | | |
| Field Density Test | 30 | Ea. | \$24.63 | \$738.90 | <i>Testing on the Following: 10 trips to perform testing Walking Trail Subgrade Walking Trail Select Fill</i> |
| Test Report | 10 | Ea. | \$24.30 | \$243.00 | |
| Technician (Soils) | 20 | Hr. | \$52.88 | \$1,057.60 | |
| Mileage (Trip Charge) | 300 | Mi. | \$0.55 | \$165.00 | |
| Subtotal: | | | | \$2,204.50 | |
| <i>Concrete Placement/Foundations and Drilled Piers</i> | | | | | |
| Air Content(Pressure Method) | 10 | Ea. | \$24.58 | \$245.80 | <i>10 site visits for placement testing</i> |
| Test Report | 10 | Ea. | \$24.30 | \$243.00 | |
| Technician (Concrete) | 20 | Hr. | \$52.88 | \$1,057.60 | |
| Mileage (Trip Charge) | 300 | Mi. | \$0.55 | \$165.00 | |
| Subtotal: | | | | \$1,711.40 | |
| Cyl. Spec. Prep, Hold, Cure | 40 | Ea. | \$12.36 | \$494.40 | <i>Quantities based on sample pickup and deliver to laboratory for Compression Testing</i> |
| Comp. Str. Of Cyl. Specimen | 40 | Ea. | \$16.40 | \$656.00 | |
| Test Reports (7 and 28 day) | 20 | Ea. | \$24.30 | \$486.00 | |
| Technician (Concrete) | 20 | Hr. | \$52.88 | \$1,057.60 | |
| Mileage (Trip Charge) | 300 | Mi. | \$0.55 | \$165.00 | |
| Subtotal: | | | | \$2,859.00 | |

| | | | | | |
|--|----|--|------------|--------------------|--|
| Estimated Field and Laboratory Test Fees | | | \$8,477.22 | | |
| Laboratory Manager (Report Review)(Hr.) | 12 | | \$105.76 | \$1,269.12 | |
| Project Engineer (Report Review)(Hr.) | 12 | | \$133.76 | \$1,605.12 | |
| Estimated Materials Testing Total | | | | \$11,351.46 | |