

# L&G Engineering Laboratory

Construction Material Testing  
Geotechnical Engineering

April 23, 2015

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

**RE: Linn San Manuel Facility**

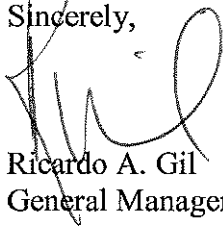
Dear Ms. Lucio:

Included for your use with this letter are test reports **R049 & R050** for **Construction Material Testing** performed on the above referenced project. Unless otherwise noted, all test results meet or exceed requirements.

L&G Engineering Laboratory 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: JCON Construction, LLC, Mr. Juan Jose Pena Jr.

RECEIVED  
APR 23 2015  
BY: *J. Lucio*



# L&G Engineering Laboratory

Construction Material Testing  
Geotechnical Engineering

2100 W. Expressway 83 Mercedes, TX 78570 (956) 565-0760  
900 S. Stewart Rd. Ste. 6 Mission, TX 78572 (956) 583-7117  
3388 US Hwy 277 Carrizo Springs, TX (888) 565-9813

## FIELD DENSITIES TEST REPORT

Project Description: Linn San Manuel Facility  
Client: Hidalgo County Pct. #4  
Contractor: JCON Construction, LLC

L&G Project Number: L1301404

L&G Report Number: R049

Sample Date: 03/27/2015

Date Reported: 03/27/2015

Client PO: 713423

Page 1 of 1

Specification No.	Specification	Moisture Tolerance	
	Required % Proctor	Minimum	Maximum
1	98	12.7	15.7
2	98	16.0	20.0

Proctor No	Optimum % Moisture	Opt. Density, LB/CF
BASE MD3	14.7	113.3

### Material Description Base Material

Test No.	Test Location	Proctor No	Spec. No.	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	150ft S of Rd. 186 Entrance E. side of drive 1st Lift	BASE MD3	1	14.6%	118.8 pcf	104.9% (Pass)	4"
2	50ft S of Rd 186 Entrance E. Side of drive 1st Lift	BASE MD3	1	14.6%	114.2 pcf	100.8% (Pass)	4"
3	50ft S of Rd 186 Entrance W. Side of drive 1st Lift	BASE MD3	1	15.0%	113.8 pcf	100.4% (Pass)	4"
4	150ft S of Rd 186 Entrance W. Side of drive 1st Lift	BASE MD3	1	15.7%	114.1 pcf	100.7% (Pass)	4"
5	10ft S x 35ft E from NW Corner 1st Lift	BASE MD3	1	14.2%	113.1 pcf	99.8% (Pass)	4"
6	30ft S 70ft E of NW Corner 1st Lift	BASE MD3	1	12.3%	115.6 pcf	102.0% (Fail)	4"
7	10ft N x 30ft W from SE Corner 1st Lift	BASE MD3	1	14.4%	116.4 pcf	102.7% (Pass)	4"
8	10ft s x 35ft E from NW Corner 1st Lift	BASE MD3	1	14.3%	115.6 pcf	102.0% (Pass)	4"

Remarks: Test results are in general compliance with the project specifications except as noted.

Test Methods: ASTM D2922, D3017

Orig: Hidalgo County Pct. #4 (Gen.) (Hidalgo County Pct. #4)  
(Edinburg, TX) Attn: Raul Sesin  
(1-cc copy)

1-cc JCON Construction, LLC  
Attn: Juan Jose Pena Jr.  
1-cc Laboratory

Respectfully Submitted,  
L&G Engineering Laboratory

Ricardo A. Gil, Lab Manager

## Celia Almaguer

---

**From:** Maria Lucio [maria.lucio@co.hidalgo.tx.us]  
**Sent:** Thursday, March 26, 2015 2:30 PM  
**To:** Rick Gil; Celia Almaguer  
**Cc:** Jesus Ozuna; Hector Rene Garcia; J-Con Commercial Construction & Management; Domingo Desiga  
**Subject:** Fwd: Linn-SanManuel Parking Lot  
**Importance:** High

Good Afternoon,

2049

As per your on call contract C-13-220-08-13 (Work Authorization #6 Linn San Manuel Emergency Service Facility), we would like to request the following:

1. Re-test compaction/density for asphalt paving flexible base at north side of the building. ✓

Please begin testing Friday, March 27, 2015 at 2:00 p.m. A representative from the Precinct and Contractor will be there. Should you have any questions or need anything else please let me know. Thank you, have a great day!

Respectfully,

*Lulu Lucio*  
Hidalgo County Precinct #4  
Ph: 956-292-7000 Ext. 4026  
Fax: 956-381-5905  
[maria.lucio@co.hidalgo.tx.us](mailto:maria.lucio@co.hidalgo.tx.us)

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**From:** "Jesus Ozuna" <[jesus.ozuna@co.hidalgo.tx.us](mailto:jesus.ozuna@co.hidalgo.tx.us)>  
**To:** "Lulu Lucio" <[maria.lucio@co.hidalgo.tx.us](mailto:maria.lucio@co.hidalgo.tx.us)>  
**Sent:** Thursday, March 26, 2015 2:24:27 PM  
**Subject:** Fwd: Linn-SanManuel Parking Lot

Lulu,

Please send a directive to L&G labs for the request below from JCON. Thanks

Jesse

Sent from my iPhone

Begin forwarded message:

**From:** domingo <[domingo@jconconstruction.com](mailto:domingo@jconconstruction.com)>  
**Date:** March 26, 2015 at 2:01:55 PM CDT  
**To:** Jesus Ozuna <[jesus.ozuna@co.hidalgo.tx.us](mailto:jesus.ozuna@co.hidalgo.tx.us)>



**REPORT OF SITE VISIT  
TEST REPORT**

Project Description: Linn San Manuel Facility  
Client: Hidalgo County Pct. #4  
Contractor: JCON Construction, LLC

L&G Project Number: L1301404  
L&G Report Number: R050  
Sample Date: 04/17/2015  
Date Reported: 04/17/2015

Client PO: 713423

Page 1 of 1

On April 17, 2015, a representative of L&G Engineering Laboratory was dispatched to Linn San Manuel to perform inspection on the placement of ready-mixed concrete on Curb & Sidewalk.

Specimen Number 6 was obtained and tested at 9:10 AM, and the following were determined:

<b>Concrete Temp:</b> <u>85°f</u>	<u>N/A</u> Specification	<b>Entrapped/Entrained Air Content:</b> <u>1.7%</u>	<u>N/A</u> Specification
<b>Ambient Temp:</b> <u>76°f</u>	<u>N/A</u> Specification	<b>Slump:</b> <u>3 inches</u>	<u>N/A</u> Specification

From Specimen Number 6, a total of 4-6x12 cylindrical test specimens were cast for Compressive Strength Testing at intervals of 7 and 28 days.

Specimen Number 7 was obtained and tested at 10:15 AM, and the following were determined:

<b>Concrete Temp:</b> <u>87°f</u>	<u>N/A</u> Specification	<b>Entrapped/Entrained Air Content:</b> <u>2.5%</u>	<u>N/A</u> Specification
<b>Ambient Temp:</b> <u>79°f</u>	<u>N/A</u> Specification	<b>Slump:</b> <u>5 1/2 inches</u>	<u>N/A</u> Specification

From Specimen Number 7, a total of 4-6x12 cylindrical test specimens were cast for Compressive Strength Testing at intervals of 7 and 28 days.

On April 20, 2015, 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 Curb & Sidewalk. 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, ASTM C-192, ASTM C-138

Orig: Hidalgo County Pct. #4 (Gen.) (Hidalgo County Pct. #4)  
(Edinburg, TX) Attn: Raul Sesin  
(1-cc copy)  
1-cc JCON Construction, LLC  
Attn: Juan Jose Pena Jr.  
1-cc Laboratory

Respectfully Submitted,  
L&G Engineering Laboratory

Ricardo A. Gil, Lab Manager

## Celia Almaguer

---

**From:** Jesus Ozuna [jesus.ozuna@co.hidalgo.tx.us]  
**Sent:** Thursday, April 16, 2015 8:46 AM  
**To:** Rick Gil  
**Cc:** Celia Almaguer; Lulu Lucio; domingo@jconconstruction.com; Hector Garcia  
**Subject:** Fwd: Linn-SanManuel Concrete

Good Morning,

As per your on call contract C-13-220-08-13 (Work Authorization #6 Linn San Manuel Emergency Service Facility), we would like to request the following:

ROSO

1. Concrete strength testing for sidewalks and curb at the Linn San Manuel Emergency Facility to include air content (pressure method), cyl. spec. prep, hold, cure, compressive strength of cyl. specimen, and test reports.

Please begin testing Friday, April 17th at 9:00am. A representative from the Precinct and Contractor will be there. Should you have any questions or need anything else please let me know. Thank you, have a great day!

Jesse Ozuna

Sent from my iPhone

Begin forwarded message:

**From:** domingo <domingo@jconconstruction.com>  
**Date:** April 16, 2015 at 8:43:56 AM CDT  
**To:** Jesus Ozuna <jesus.ozuna@co.hidalgo.tx.us>  
**Subject:** Re: Linn-SanManuel Concrete

Jesse,  
Going to try to pour concrete tomorrow. Can you please send a directive to L&G Engineering to perform concrete strength tests for sidewalk and curb. Testing to be done on 04-17-15 @ 9:00 am. Thanks.

Sent from my ZTE Grand™ X, a Cricket 4G smartphone

Jesus Ozuna <jesus.ozuna@co.hidalgo.tx.us> wrote:

Good Morning Rick,

**Construction Material Testing  
Geotechnical Engineering**

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

Client Address: Hidalgo County Pct. #4

1102 N. Doolittle Rd.  
Edinburg, TX. 78539

Account No.: L130

Project No: L1301404

Project Desc.: Linn San Manuel Facility

Due Date: UPON RECEIPT

Budget/Remaining: \$49,207.32 / \$30,678.70

PO: 713423

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

	<u>Unit Rate</u>	<u>Qty</u>	<u>Extension</u>
910:91011 - Field Density	\$23.56	7.00	\$164.92
920:92033 - Air Content (Pressure Method)	\$23.51	2.00	\$47.02
920:92035 - Cyl. Specimen Prep./Hold/Cure	\$11.83	8.00	\$94.64
940:94048 - Eng. Tech. (Soils / SP.)	\$47.14	2.00	\$94.28
940:94050 - Eng. Tech. (Concrete)	\$60.18	6.00	\$361.08
940:94054 - Engineering Specialist	\$117.75	0.50	\$58.88
940:94055 - Engineer / P.E.	\$157.08	0.50	\$78.54
950:95058 - Vehicle Trip Charge	\$0.52	300.00	\$156.00
950:95061 - Test Report	\$23.24	2.00	\$46.48
<b>Total for this Invoice:</b>			<b>\$1,101.84</b>

===== 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>
R049	03/27/2015	7.00	910:91011 - Field Density	Each	\$23.56	\$164.92
R049	03/27/2015	2.00	940:94048 - Eng. Tech. (Soils / SP.)	Hour	\$47.14	\$94.28
R049	03/27/2015	0.25	940:94054 - Engineering Specialist	Hour	\$117.75	\$29.44
R049	03/27/2015	0.25	940:94055 - Engineer / P.E.	Hour	\$157.08	\$39.27
R049	03/27/2015	100.00	950:95058 - Vehicle Trip Charge	Mile	\$0.52	\$52.00
R049	03/27/2015	1.00	950:95061 - Test Report	Each	\$23.24	\$23.24
Report Number R049 for a Subtotal of:						\$403.15
R050	04/17/2015	2.00	920:92033 - Air Content (Pressure Method)	Each	\$23.51	\$47.02

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

Net 30 Days



**Construction Material Testing  
Geotechnical Engineering**

**INVOICE**  
Invoice Date: 04/23/2015  
Invoice No: 15-4-000012

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>
R050	04/17/2015	8.00	920:92035 - Cyl. Specimen Prep./Hold/Cure	Each	\$11.83	\$94.64
R050	04/17/2015	6.00	940:94050 - Eng. Tech. (Concrete)	Hour	\$60.18	\$361.08
R050	04/17/2015	0.25	940:94054 - Engineering Specialist	Hour	\$117.75	\$29.44
R050	04/17/2015	0.25	940:94055 - Engineer / P.E.	Hour	\$157.08	\$39.27
R050	04/17/2015	200.00	950:95058 - Vehicle Trip Charge	Mile	\$0.52	\$104.00
R050	04/17/2015	1.00	950:95061 - Test Report	Each	\$23.24	\$23.24
Report Number R050 for a Subtotal of:						\$698.69
<b>Total for this Invoice:</b>						<b>\$1,101.84</b>

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

**Pavement Thickness / Asphalt Quality**

**FY 2014                      FY 2015**

Coring - ACP Thickness	ASTM D 3549	\$65.49/Ea.	\$66.47/Ea.
Pavement Thickness Determination (Full Depth)	ASTM	\$87.14/Ea.	\$88.45/Ea.
Density of Asphaltic Cores (4 or 6 inch)	Tex-207-F	\$71.96 Ea.	\$73.04 Ea.
Extraction/Sieve Analysis/Asphalt Content	Tex-210-F    Tex-200-F	\$229.04Ea	\$232.48 Ea
Asphalt Rolling Pattern (Nuclear Method)	Tex-207-F    Part IV	\$39.27/Ea.	\$39.86 Ea.
Eff. Of Water on Asphalt Mixtures (As Rec'd)	Tex-531-C	\$85.12/Ea.	\$86.40 Ea.

**Pavement Investigation**

**FY 2014                      FY 2015**

Core Existing Asphalt for Thickness, Perform Caliche Base Thickness, Sieve Analysis and Plasticity Index, Stabilized Subgrade Thickness and Plasticity Index		\$490.72 Ea	\$498.08 Ea.
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L&G Engineering provides Technical and Engineering services at the rates listed below.

<b><u>Personnel:</u></b>	Engineer (Principal).....	\$157.08 Hr.	\$159.44/Hr.
	Engineering Specialist.....	\$117.75/Hr.	\$119.52/Hr.
	Technician (Soils).....	\$ 47.14/Hr.	\$47.85/Hr.
	Technician (Concrete).....	\$ 60.18/Hr.	\$61.08/Hr.
	Technician (Asphalt).....	\$ 60.18/Hr.	\$61.08/Hr.

**Engineering Review, Evaluation, Management & Administration**

**FY 2014                      FY 2015**

Test Report.....	\$ 23.24/Ea.	\$23.59/Ea.
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The specific hourly rate within each classification listed above 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.

<b><u>Expenses:</u></b>	Mileage.....	.52/Mi.	.53/Mi.
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All other project specific, third-party costs will be charged at cost plus 10 percent. Invoices will be submitted monthly for work in progress in our standard format. They are due and payable upon receipt and become due 30 days after the billing date. Past due invoices may be subject to late charges at the rate of 1 1/2 percent per month (18 percent per annum). In the event that the State of Texas legislates a sales tax on Professional Services, the amount of the tax will be added to the appropriate service rate charged. Our invoices are due and payable upon receipt at 2100 W. Expressway 83, Mercedes, Texas 78570.

^^Fees adjusted approximately 1.5% annually.

# Exhibit A

## L & G Engineering

Consulting Engineers

### EXHIBIT "C" L&G ENGINEERING CONSTRUCTION MATERIALS TESTING LABORATORY RATES FOR FY 2014-2015

#### Soils Testing

		FY 2014	FY 2015
Moisture Content Determination	ASTM D2216 - Tex-103-E	\$10.40/Ea.	\$10.55/Ea.
Determination of Liquid Limit of Soils	Tex-104-E	\$52.37/Ea.	\$53.15/Ea.
Determination of Plastic Limit of Soils	Tex-105-E	\$52.58/Ea.	\$53.37/Ea.
Atterberg Limits of Soils	ASTM D 4318 - Tex 106-E	\$78.48/Ea.	\$79.66/Ea.
Bar Linear Shrinkage of Soils	Tex-107-E	\$65.49/Ea.	\$66.47/Ea.
Material Finer #200 Sieve	ASTM D 1140 -Tex-111-E	\$65.49 Ea.	\$66.47 Ea.
Lime Series Testing	Tex-112-E	\$529.04/Ea.	\$536.97/Ea.
Moisture-Density Relationship (TxDOT)	Tex-113-E Tex-114-E	\$209.45/Ea.	\$212.59/Ea.
Standard Proctor	ASTM D 698	\$202.78 Ea.	\$205.82 Ea.
Modified Proctor	ASTM D 1557	\$209.36 Ea.	\$212.50 Ea.
Field Density Test (Nuclear)	ASTM D 2922 - Tex-115-E	\$23.56/Ea.	\$23.91/Ea.
Determination of Soil pH	Tex-128-E	\$85.12/Ea.	\$86.40/Ea.
Soil-Lime Testing	Tex-121-E	\$157.08/Ea.	\$159.44/Ea.
Resistivity of Soils	Tex-129-E	\$95.22/Ea.	\$96.65/Ea.
Sieve Analysis (Dry)(4 Sieves)	ASTM C 136 - Tex-110-E	\$58.85/Ea.	\$59.73/Ea.
Sieve Analysis (Washed)(4 Sieve)	ASTM C 136 - Tex-110-E	\$71.20/Ea.	\$72.27/Ea.
Sieve Analysis (Additional Sieves)	ASTM C 136 - Tex-110-E	\$13.11/Ea.	\$13.31/Ea.
Texas Wet Ball Mill (Base Material Quality)	Tex-116-E	\$229.11/Ea.	\$232.55/Ea.

#### Coarse & Fine Aggregate Quality Testing

Decantation Test (Conc. Aggr.)	ASTM C117 - Tex-406-A	\$45.81/Ea.	\$46.50/Ea.
Specific Gravity/Absorp. (Conc. Aggr)	ASTM C127 - Tex-403-A	\$71.91/Ea.	\$72.99/Ea.
5 Cycle Magnesium Soundness	ASTM C88 - Tex-411-A	\$556.21/Ea.	\$564.55/Ea.
SSD Unit Weight of Aggregates	ASTM C29 - Tex-404-A	\$65.49/Ea.	\$66.47/Ea.
Percent Voids/Solids in Conc. Aggr.	Tex-405-A	\$13.05/Ea.	\$13.25/Ea.
<b>*(In Conjunction w/ SSD Unit Wt of Aggregates)</b>			
Sand Equivalent	ASTM D 2419 - Tex-203-F	\$71.91/Ea.	\$72.99/Ea.
Specific Gravity / Absorption (Fine Aggr.)	ASTM C 128 - Tex -403-A	\$78.49/Ea.	\$79.67/Ea.
Organic Impurities in Fine Aggregate	ASTM C 87 - Tex -408-A	\$45.81/Ea.	\$46.50/Ea.
Fineness Modulus of Fine Aggregate	Tex-402-A	\$15.71/Ea.	\$15.95/Ea.
Acid Insoluble of Fine Aggregate	Tex-612-J	\$85.12/Ea.	\$86.40/Ea.

#### Concrete/Masonry Field & Laboratory Testing

Slump Test	ASTM C 143 - Tex-415-A	<b>Sno charge</b>	<b>Sno charge</b>
Air Content (Pressure Method)	ASTM C 138 - Tex-416-A	\$23.51/Ea.	\$23.86/Ea.
Air Content (Volumetric)	ASTM C 173	\$26.17/Ea.	\$26.56/Ea.
Casting of Concrete Cylinders	ASTM C 31	<b>Sno charge</b>	
Compressive Strength of Cyl. Specimen	ASTM C 39 - Tex-418-A	\$15.68/Ea.	\$15.92/Ea.
Cylindrical Specimen Prep./Hold/Cure	ASTM C 192	\$11.83/Ea.	\$12.00/Ea.
Casting of Grout Prisms	ASTM C 1019	<b>Sno charge</b>	
Grout Prism Prep./Cure/Compressive Strength	ASTM C 39	\$32.74/Ea.	\$33.23/Ea.
Casting of Mortar Cubes	ASTM C 780	<b>Sno charge</b>	
Mortar Cube Prep./Cure/Compressive Strength	ASTM C 109	\$32.00/Ea.	\$32.48/Ea.
Masonry Unit Prep. /Compressive Str. (Set of 3)	ASTM C 140	\$228.98/Ea.	\$232.41/Ea.
Masonry Unit SPG/Abs./Unit Wt. (Set of 3)	ASTM C 140	\$228.98/Ea.	\$232.41/Ea.

**\*(In Conjunction w/ Field Inspection)**

Attachment "D"  
L&G Engineering Laboratory, LLC  
Linn-San Manuel Emergency Services Facility  
Prepared for Hidalgo County Precinct No. 4

<i>In-Situ Soils Testing-Laboratory-Building Subgrade / Parking Area</i>					
Standard Proctor	2	Ea.	\$202.78	\$405.56	<i>Building Footprint Approx. 7,500 SF</i>
Atterberg Limits of Soils	2	Ea.	\$78.48	\$156.96	
Material Finer #200	2	Ea.	\$65.49	\$130.98	<i>New Parking Area Approx. 24,000 SF</i>
Test Report	2	Ea.	\$23.24	\$46.48	
Technician (Soils)	6	Hr.	\$47.14	\$282.84	
Mileage (Trip Charge)	168	Mi.	\$0.52	\$87.36	
				Subtotal:	\$1,110.18
<i>In-Situ Soils Testing-Field-Building Subgrade / Parking Area</i>					
Field Density Test	15	Ea.	\$23.56	\$353.40	<i>Quantities Based on 3</i>
Test Report	3	Ea.	\$23.24	\$69.72	
Technician (Soils)	10	Hr.	\$47.14	\$471.40	<i>Visits to Project To perform testing</i>
Mileage (Trip Charge)	252	Mi.	\$0.52	\$131.04	
				Subtotal:	\$1,025.56
<i>Select Fill (Type I Gr 4) Soils Testing / Slab Laboratory</i>					
Standard Proctor	1	Ea.	\$202.78	\$202.78	<i>Based on 1 Select Fill Samples</i>
Atterberg Limits of Soils	3	Ea.	\$78.48	\$235.44	
Sieve Analysis	3	Ea.	\$58.85	\$176.55	<i>2 Additional Atterberg Limits &amp; Sieve Analysis for Field Verification of Select Fill Materials</i>
Technician (Soils)	8	Hr.	\$47.14	\$377.12	
Mileage (Trip Charge)	168	Mi.	\$0.52	\$87.36	
Test Report	4	Ea.	\$23.24	\$92.96	
				Subtotal:	\$1,172.21
<i>Select Fill (Type I Gr 4) Soils Testing-Field Inspection / Monitoring</i>					
Field Density Test	12	Ea.	\$23.56	\$282.72	<i>Based on 2 - 6" Lifts A Minimum of 4 Compaction</i>
Test Report	2	Ea.	\$23.24	\$46.48	
Technician (Soils)	6	Hr.	\$47.14	\$282.84	<i>Test Per Lift or every 3000 Square Feet 4 tests per lift</i>
Mileage (Trip Charge)	168	Mi.	\$0.52	\$87.36	
				Subtotal:	\$699.40
<i>Concrete Reinforcement Steel Placement Verification (Concrete Masonry Units)</i>					
Test Report	10	Ea.	\$23.24	\$232.40	<i>Verification Inspection assuming 10 grout placements</i>
Technician (Concrete)	30	Hr.	\$60.18	\$1,805.40	
Mileage (Trip Charge)	840	Mi.	\$0.52	\$436.80	
				Subtotal:	\$2,474.60
<i>Concrete Placement / Floor Slabs Main Building Cover and Parking</i>					
— Air Content (Pressure Method)	4	Ea.	\$23.51	\$94.04	<i>Assuming 4 Placements for a total of 200 cy 1 set Every 50 as per General Notes 4 Cylinders to be Tested for Compression</i>
Test Report	4	Ea.	\$23.24	\$92.96	
Technician (Concrete)	12	Hr.	\$60.18	\$722.16	
Mileage (Trip Charge)	336	Mi.	\$0.52	\$174.72	
				Subtotal:	\$1,083.88
— Cyl. Spec. Prep, Hold, Cure	16	Ea.	\$11.83	\$189.28	<i>at a Frequency of Two 7 Day and Two 28 Day</i>
Comp. Str. Of Cyl. Specimen	16	Ea.	\$15.68	\$250.88	
Test Reports (7 and 28 day)	8	Ea.	\$23.24	\$185.92	
Technician (Concrete)	16	Hr.	\$60.18	\$962.88	
Mileage (Trip Charge)	336	Mi.	\$0.52	\$174.72	
				Subtotal:	\$1,763.68

**Concrete Placement - Misc. Concrete - Sidewalks-Canopies-Curb and Gutter**

Air Content(Pressure Method)	10	Ea.	\$23.51	\$235.10	<i>Assuming 10 Placements</i>
Test Report	10	Ea.	\$23.24	\$232.40	
Technician (Concrete)	30	Hr.	\$60.18	\$1,805.40	
Mileage (Trip Charge)	840	Mi.	\$0.52	\$436.80	
Subtotal:				\$2,709.70	

Cyl. Spec. Prep, Hold, Cure	40	Ea.	\$11.83	\$473.20	<i>Quantities based on sample pickup and deliver to laboratory for Compression Testing</i>
Comp. Str. Of Cyl. Specimen	40	Ea.	\$15.68	\$627.20	
Test Reports (7 and 28 day)	20	Ea.	\$23.24	\$464.80	
Technician (Concrete)	40	Hr.	\$60.18	\$2,407.20	
Mileage (Trip Charge)	840	Mi.	\$0.52	\$436.80	
Subtotal:				\$4,409.20	

**Concrete Masonry Unit Quality Verification**

Masonry Unit Prep./Compressive Strength	1	Sets	\$228.98	\$228.98
Masonry Unit SPG/ABS/UNIT WT.	1	Sets	\$228.98	\$228.98
Technician (Concrete)	8	Hr.	\$60.18	\$481.44
Test Report	2	Ea.	\$23.24	\$46.48
Subtotal:				\$985.88

**Concrete Masonry Unit - Grout Testing**

Air Content(Pressure Method)	10	Ea.	\$23.51	\$235.10	<i>Assuming 10 placements</i>
Test Report	10	Ea.	\$23.24	\$232.40	
Technician (Concrete)	30	Hr.	\$60.18	\$1,805.40	
Mileage (Trip Charge)	840	Mi.	\$0.52	\$436.80	
Subtotal:				\$2,709.70	
Grout Prism Prep, Hold, Cure, Comp Str.	30	Ea.	\$32.74	\$982.20	
Test Reports (7 and 28 day)	20	Ea.	\$23.24	\$464.80	
Technician (Concrete)	40	Hr.	\$60.18	\$2,407.20	
Mileage (Trip Charge)	840	Mi.	\$0.52	\$436.80	
Subtotal:				\$4,291.00	

**Concrete Masonry Unit - Mortar Testing**

Test Report	10	Ea.	\$23.24	\$232.40	<i>Assuming 10 placements</i>
Technician (Concrete)	30	Hr.	\$60.18	\$1,805.40	
Mileage (Trip Charge)	840	Mi.	\$0.52	\$436.80	
Subtotal:				\$2,474.60	
Mortar Cube, Prep, Cure, Comp Str.	30	Ea.	\$32.00	\$960.00	
Test Reports (7 and 28 day)	20	Ea.	\$23.24	\$464.80	
Technician (Concrete)	40	Hr.	\$60.18	\$2,407.20	
Mileage (Trip Charge)	840	Mi.	\$0.52	\$436.80	
Subtotal:				\$4,268.80	

**Welding and Bolt Torque Inspection**

Engineering Specialist	16	Ea.	\$117.75	\$1,884.00	<i>Assuming 4 Visits to perform Welding and/or Bolt Torque Inspection</i>
Mileage (Trip Charge)	336	Mi.	\$0.52	\$174.72	
Test Report	4	Ea.	\$23.24	\$92.96	
Subtotal:				\$2,151.68	

**In-situ Soil Testing - Laboratory Payment Subgrade**

Standard Proctor	1	Ea.	\$202.78	\$202.78	<i>Quantity Based On 1 visit to obtain sample for laboratory testing</i>
Atterberg Limits of Soils	1	Ea.	\$78.48	\$78.48	
Test Report	1	Ea.	\$23.24	\$23.24	
Technician (Soils)	3	Hr.	\$47.14	\$141.42	
Mileage (Trip Charge)	84	Mi.	\$0.52	\$43.68	
Subtotal:				\$489.60	

**In-situ Soil Testing - Field Payment Subgrade**

Field Density Test	10	Ea.	\$23.66	\$236.60	<i>Quantity Based On 2 site visits to perform compaction</i>
Test Report	2	Ea.	\$23.24	\$46.48	
Technician (Soils)	6	Hr.	\$47.14	\$282.84	

<b>Site Select Fill Soils Testing-Laboratory</b>					
Standard Proctor	1	Ea.	\$202.78	\$202.78	<i>Quantity Based In 1 site visit to obtain sample</i>
Atterberg Limits of Soils	1	Ea.	\$78.48	\$78.48	
Material Finer #200	1	Ea.	\$65.49	\$65.49	
Technician (Soils)	3	Hr.	\$47.14	\$141.42	
Test Report	1	Ea.	\$23.24	\$23.24	
Mileage (Trip Charge)	84	Mi.	\$0.52	\$43.68	
				Subtotal:	\$555.09
<b>Site Select Fill Soils-Field Testing and Monitoring</b>					
Field Density Test	10	Ea.	\$23.56	\$235.60	<i>Quantities based on 2 visits to perform testing</i>
Test Report	2	Ea.	\$23.24	\$46.48	
Technician (Soils)	6	Hr.	\$47.14	\$282.84	
Mileage (Trip Charge)	168	Mi.	\$0.52	\$87.36	
				Subtotal:	
<b>Flexible Base (Caliche) Parking Areas-Testing-Laboratory</b>					
Standard Proctor	1	Ea.	\$202.78	\$202.78	<i>Quantity based on 1 site visit to obtain sample</i>
Atterberg Limits of Soils	1	Ea.	\$78.48	\$78.48	
Sieve Analysis (Dry)(4 Sieve)	1	Ea.	\$58.85	\$58.85	
Texas Wet Ball Mill	1	Ea.	\$229.11	\$229.11	
Technician (Soils)	4	Hr.	\$47.14	\$188.56	
Test Report	2	Ea.	\$23.24	\$46.48	
Mileage (Trip Charge)	84	Mi.	\$0.52	\$43.68	
				Subtotal:	\$847.94
<b>Flexible Base (Caliche) Parking Areas-Field Testing and Monitoring</b>					
Field Density Test	8	Ea.	\$23.56	\$188.48	<i>Quantities based on three (3) visits to perform in-place testing</i>
Test Report	2	Ea.	\$23.24	\$46.48	
Technician (Soils)	4	Hr.	\$47.14	\$188.56	
Mileage (Trip Charge)	12	Mi.	\$0.52	\$6.24	
				Subtotal:	
<b>Hbt Mix Asphalt Paving/Parking Area</b>					
Ext. Sieve Analysis/Asph Content	2	Ea.	\$229.04	\$458.08	<i>Quantities based on three site visits to perform testing</i>
Density of Asphaltic Cores	3	Ea.	\$71.96	\$215.88	
Asphalt Rolling Patterns	6	Ea.	\$39.27	\$235.62	
Coring/ACP Thickness	8	Ea.	\$65.49	\$523.92	
Technician (Asphalt)	12	Hr.	\$60.18	\$722.16	
Mileage (Trip Charge)	252	Mi.	\$0.52	\$131.04	
Test Report	3	Ea.	\$23.24	\$69.72	
				Subtotal:	\$2,356.42

Estimated Field and Laboratory Test Fees			\$39,313.44
Engineering Specialist (Report Review)(Hr.)	36	\$117.75	\$4,239.00
Engineer-Principal (Report Review)(Hr.)	36	\$157.08	\$5,654.88
Estimated Materials Testing Total			\$49,207.32

# Requisition

Req # 00261694

PO # 713423

Date: 08/11/14

Bill To: x  
x

Vendor : 312797  
L & G ENGINEERING LABORATORY, LLC  
2100 W. EXPRESSWAY 83  
MERCEDDES TX 78570

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

Contact: VLopez  
956-383-3112

Contract No: C-13-220-08-13

Special Instructions:  
Pct. Req # 915

QUANTITY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
1.00	LOT	C-13-220-08-13 Approved CC 08/12/14 AI-45918 (Concent) For: Linn San Manuel Emergency Service Facility DO NOT DUPLICATE ORDER  CC Work Authorization No. 6- CONSTRUCTION MATERIAL TESTING for "Linn San Manuel Emergency Service Facility" in Hidalgo County Pct. No. Four (4)  <u>Account No</u> ----- 4-1301-419-40-124-136-0-720  * This WA shall become effective on the date of final acceptance of the parties hereto, and terminated upon completion of scopes of the work authorization  REPORT ROAD HAZARDS 1-866-HCR-SAFE OR 1-866-427-7233	49,207.32     <u>Encumbrance</u> 49,207.32  Freight .00  Total	49,207.32           49,207.32

Authorized By: \_\_\_\_\_