

Requisition

Req # 00308434

PO # 751864

Date: 10/21/16

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

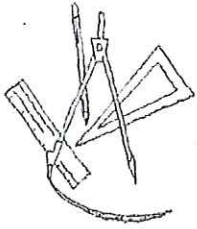
Contact: NICK PEREZ
 956-383-3112

Contract No: C-16-305-10-04

Special Instructions:
PCT#1257

QUANTITY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
1.00		C-16-305-10-04 WORK AUTHORIZATION NO. 1 CONSTRUCTION MATERIAL TESTING SERVICES. "SAN CARLOS CRC LANDSCAPING, IRRIGATION, & RETAINING WALL" CC APPROVAL: 10/13/2016 AI-56824 DO NOT DUPLICATE ORDER CC "Construction Material Testing Services for the "San Carlos CRC Landscaping, Irrigation & Retaining Wall" <u>Account No</u> 6-1100-419-40-124-123-0-740	9,501.62 9,501.62 Freight .00 Total	9,501.62 .00 9,501.62

Authorized By: _____



L&G Engineering

Transportation Consultants

February 28, 2017



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

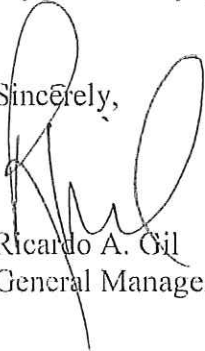
RE: San Carlos CRC Landscaping, Irrigation, & Retaining Wall (WA #1)

Dear Ms. Lucio:

Included for your use with this letter, are test reports **R002-28 thru R004** for **Construction Material Testing** performed on the above referenced project. As noted on report R002-28, one (1) specimen will be held for testing @ 56 days. 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: G & G Contractors



February 28, 2017

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

RE: San Carlos CRC Landscaping, Irrigation & Retaining Wall
Contract No. # C-16-305-10-04 - Work Authorization # 1
Project No. # E130602
P.O. # 751864

Dear Ms. Lucio:

Attached for your review and approval is our invoice for the services rendered under Work Authorization #1 on the subject referenced project for the month of February.

The following is attached:

- L&G's Invoice # 17-2-000056
- 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: E130602
 Project Desc.: San Carlos CRC Landscaping, Irrigation, &
 Retaining Wall (WA #1)

Due Date: UPON RECEIPT
 Budget/Remaining: \$9,501.62 / \$8,150.26
 PO: 751864

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

	<u>Unit Rate</u>	<u>Qty</u>		<u>Extension</u>
920:92033 - Air Content (Pressure Method)	\$23.86	1.00	✓	\$23.86
920:92034 - Comp. Strength of Cyl. Specimen	\$15.92	3.00	-	\$47.76
920:92035 - Cyl. Specimen Prep./Hold/Cure	\$12.00	4.00	✓	\$48.00
940:94047 - Eng. Tech. (Concrete / Lab)	\$48.11	1.00	✓	\$48.12
940:94050 - Eng. Tech. (Concrete)	\$48.11	5.00	✓	\$240.55
940:94054 - Engineering Specialist (Lab Mgr.)	\$96.22	0.25	-	\$24.06
940:94054 - Laboratory Manager (Specialist)	\$96.22	0.50	-	\$48.12
940:94055 - Engineer / P.E.	\$121.69	0.75	-	\$91.26
950:95058 - Vehicle Trip Charge	\$0.56	56.00	✓	\$31.36
950:95060 - Administrative / Clerical	\$56.60	3.00	-	\$169.80
950:95061 - Test Report	\$23.59	3.00	✓	\$70.77
Total for this Invoice:				\$843.66

===== 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>
R002-28 ✓	12/27/2016	1.00	920:92034~ Comp. Strength of Cyl. Specimen	Each	\$15.92	\$15.92
R002-28	12/27/2016	0.50	940:94047 - Eng. Tech. (Concrete / Lab)	Each	\$48.11	\$24.06
R002-28	12/27/2016	0.25	940:94054 - Engineering Specialist (Lab Mgr.)	Hour	\$96.22	\$24.06
R002-28	12/27/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$121.69	\$30.42
R002-28	12/27/2016	1.00	950:95060 - Administrative / Clerical	Hour	\$56.60	\$56.60
R002-28	12/27/2016	1.00	950:95061 - Test Report	Each	\$23.59	\$23.59

Report Number R002-28 for a Subtotal of: **\$174.65**

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

Net 30 Days

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>
R003	01/24/2017	1.00	920:92033 - Air Content (Pressure Method)	Each	\$23.86	\$23.86
R003	01/24/2017	4.00	920:92035 - Cyl. Specimen Prep./Hold/Cure	Each	\$12.00	\$48.00
R003	01/24/2017	5.00	940:94050 - Eng. Tech. (Concrete)	Hour	\$48.11	\$240.55
R003	01/24/2017	0.25	940:94054 - Laboratory Manager (Specialist)	Hour	\$96.22	\$24.06
R003	01/24/2017	0.25	940:94055 - Engineer / P.E.	Hour	\$121.69	\$30.42
R003	01/24/2017	56.00	950:95058 - Vehicle Trip Charge	Mile	\$0.56	\$31.36
R003	01/24/2017	1.00	950:95060 - Administrative / Clerical	Hour	\$56.60	\$56.60
R003	01/24/2017	1.00	950:95061 - Test Report	Each	\$23.59	\$23.59
Report Number R003 for a Subtotal of:						\$478.44
R004	01/24/2017	2.00	920:92034 - Comp. Strength of Cyl. Specimen	Each	\$15.92	\$31.84
R004	01/24/2017	0.50	940:94047 - Eng. Tech. (Concrete / Lab)	Each	\$48.11	\$24.06
R004	01/24/2017	0.25	940:94054 - Laboratory Manager (Specialist)	Hour	\$96.22	\$24.06
R004	01/24/2017	0.25	940:94055 - Engineer / P.E.	Hour	\$121.69	\$30.42
R004	01/24/2017	1.00	950:95060 - Administrative / Clerical	Hour	\$56.60	\$56.60
R004	01/24/2017	1.00	950:95061 - Test Report	Each	\$23.59	\$23.59
Report Number R004 for a Subtotal of:						\$190.57
Total for this Invoice:						\$843.66

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

CONCRETE COMPRESSION TEST REPORT

Project Description: San Carlos CRC Landscaping, Irrigation, & Retaining Wall (WA #1) L&G Project Number: E130602
 Client: Hidalgo County Pct. #4 L&G Report Number: R002-28
 Contractor: G & G Contractors Sample Date: 12/27/2016
 Date Reported: 01/24/2017

Client PO: 751864

Page 1 of 1

Placement Location: South End Retaining Wall
 Mix ID: 3000 CGI Supplier: CRM
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: N/A Slump: 5.5"
 Specified Air Content: N/A Air Content: 3.4%
 Weather Conditions: Sunny & Hot Air Temp.: 81°F
 Time Batched: 10:50 am Time Sampled: 11:40 am Concrete Temp.: 85°F
 Plant Ticket No: 478677 Truck No: 299 CY: 10
 Water: 0 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	01/03/2017	7	43,010	Type 2	1,520		50.67%
	B	01/03/2017	7	42,175	Type 4	1,490	1,510	49.67%
	C	01/24/2017	28	83,375	Type 3	2,950	2,950	98.33%

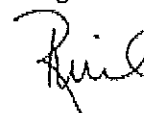


Remarks/Comments:

6 x 12 in. Cylinders/ Note: Specimen met requirements at 56 days.

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

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

Billy Ortiz

From: Rick Gil
Sent: Tuesday, December 27, 2016 10:06 AM
To: Billy Ortiz
Subject: Fwd: San carlos retaining wall

See the attached

Sent from my iPhone

Begin forwarded message:

From: Maria Lucio <maria.lucio@co.hidalgo.tx.us>
Date: December 27, 2016 at 9:50:58 AM CST
To: Rick Gil <rgil@lgengineers.com>
Subject: Fwd: San carlos retaining wall

Rick,
Just confirming that this is scheduled, 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

From: "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>
To: rgil@lgengineers.com
Cc: "Manuel Leal" <mleal.gandg@gmail.com>, "Hector Garcia" <hector@matagarcia-architects.com>, "steven cruz" <steven.cruz@co.hidalgo.tx.us>
Sent: Thursday, December 22, 2016 4:37:25 PM
Subject: Fwd: San carlos retaining wall

Good Afternoon Rick,

Please the email with request below.
This is for the landscape project.

Thank you!

Sent from my iPhone

Begin forwarded message:

From: Manuel Leal <mleal.gandg@gmail.com>
Date: December 22, 2016 at 4:33:14 PM CST
To: maria.lucio@co.hidalgo.tx.us, Hector Garcia <hector@matagarcia-architects.com>, Rene Garza <rgarzajr26@yahoo.com>
Subject: San carlos retaining wall

Mrs Lucio,

Please schedule testing lab for concrete pour of the retaining wall in san carlos for tuesday am at 10 am.

Thanks,
Manuel Leal
G&G Contractors

**REPORT OF SITE VISIT
TEST REPORT**

Project Description: San Carlos CRC Landscaping, Irrigation, & Retaining Wall (WA #1) L&G Project Number: E130602
Client: Hidalgo County Pct. #4 L&G Report Number: R003
Contractor: G & G Contractors Sample Date: 01/24/2017
Date Reported: 01/26/2017

Client PO: 751864

Page 1 of 1

On January 24, 2017 a representative of L&G Engineering Laboratory was dispatched to San Carlos CRC Ret. Wall to perform inspection on the placement of ready-mixed concrete on Concrete Retaining Wall.

Specimen Number 2 was obtained and tested at 2:25 PM, and the following were determined:

Concrete Temp: <u>78°f</u>	<u>N/A</u> Specification	Entrapped/Entrained Air Content: <u>1.3%</u>	<u>N/A</u> Specification
Ambient Temp: <u>87°f</u>	<u>N/A</u> Specification	Slump: <u>5 1/4 inches</u>	<u>N/A</u> Specification

From Specimen Number 2, a total of 4 6x12 cylindrical test specimens were cast for Compressive Strength Testing at intervals of 7 and 28 days.

On January 25, 2017 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 Concrete Retaining Wall. 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 G & G Contractors Attn: Manuel Leal
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

Rosa Rodriguez

From: Maria Lucio [maria.lucio@co.hidalgo.tx.us]
Sent: Monday, January 23, 2017 8:50 AM
To: Rick Gil
Cc: Hector Garcia; joseph palacios; Steven Cruz; Mario Garza, Jr.; Rene Garza; Manuel Leal
Subject: Re: San Carlos retaining wall- Landscape Project

Importance: High

Good Morning Rick,

Can we please schedule concrete testing for the San Carlos CRC- Landscape Project, retaining wall will be poured tomorrow at 1:30 pm.

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

From: "Manuel Leal" <mleal.gandq@gmail.com>
To: "Hector Garcia" <hector@matagarcia-architects.com>, "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>
Cc: "joseph palacios" <joseph.palacios@co.hidalgo.tx.us>, "Steven Cruz" <steven.cruz@co.hidalgo.tx.us>, "Mario Garza, Jr." <mgarza@uigtexas.com>, "Rene Garza" <rgarzajr26@yahoo.com>
Sent: Monday, January 23, 2017 8:37:37 AM
Subject: San Carlos retaining wall

Hector, Mrs. Lucio,

We will be pouring the retaining wall that is to the east of the crc building starting tomorrow at 1:30 pm.

Mrs. Lucio please schedule the testing Lab.

Sincerely,
Manuel Leal
G&G CONTRACTORS

CONCRETE COMPRESSION TEST REPORT

Project Description: San Carlos CRC Landscaping, Irrigation, & Retaining Wall (WA #1) L&G Project Number: E130602
 Client: Hidalgo County Pct. #4 L&G Report Number: R004
 Contractor: G & G Contractors Sample Date: 01/24/2017
 Date Reported: 01/31/2017

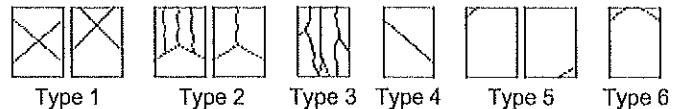
Client PO: 751864

Page 1 of 1

Placement Location: From SW Corner of Parking Lot 30' E
 Mix ID: 3000 CRI Supplier: Central Ready Mix
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: N/A Slump: 5.25"
 Specified Air Content: N/A Air Content: 1.3%
 Weather Conditions: Sunny, Very Windy Air Temp.: 87°F
 Time Batched: 1:10 pm Time Sampled: 2:25 pm Concrete Temp.: 78°F
 Plant Ticket No: 481560 Truck No: 310 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
2	A	01/31/2017	7	63,525	Type 3	2,250	2,310	75.00%
	B	01/31/2017	7	67,270	Type 3	2,380		79.33%


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 G & G Contractors Attn: Manuel Leal
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

Rosa Rodriguez

From: Maria Lucio [maria.lucio@co.hidalgo.tx.us]
Sent: Monday, January 23, 2017 8:50 AM
To: Rick Gil
Cc: Hector Garcia; joseph palacios; Steven Cruz; Mario Garza, Jr.; Rene Garza; Manuel Leal
Subject: Re: San Carlos retaining wall- Landscape Project

Importance: High

Good Morning Rick,

Can we please schedule concrete testing for the San Carlos CRC- Landscape Project, retaining wall will be poured tomorrow at 1:30 pm.

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

From: "Manuel Leal" <mleal.gandg@gmail.com>
To: "Hector Garcia" <hector@matagarcia-architects.com>, "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>
Cc: "joseph palacios" <joseph.palacios@co.hidalgo.tx.us>, "Steven Cruz" <steven.cruz@co.hidalgo.tx.us>, "Mario Garza, Jr." <mgarza@uigtexas.com>, "Rene Garza" <rgarzajr26@yahoo.com>
Sent: Monday, January 23, 2017 8:37:37 AM
Subject: San Carlos retaining wall

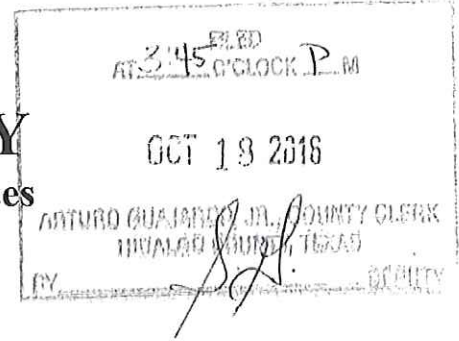
Hector, Mrs. Lucio,

We will be pouring the retaining wall that is to the east of the crc building starting tomorrow at 1:30 pm.

Mrs. Lucio please schedule the testing Lab.

Sincerely,
Manuel Leal
G&G CONTRACTORS

HIDALGO COUNTY
Professional Engineering Services
Contract # C-16-305-10-04
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** 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 "San Carlos CRC Landscaping, Irrigation, & Retaining Wall" Project 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 **\$9,501.62**. 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. _____
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: Joseph Palacios

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on 10/13/16 as indicated below and effective as of 13th day of October, 2016.

THE ENGINEER:
L&G ENGINEERING

THE OWNER:
HIDALGO COUNTY

Jacinto Garza
By: Jacinto Garza, P.E.

Ramon Garcia
Hon. Ramon Garcia, County Judge

ATTEST:

Arturo Guafardo Jr.
Arturo Guafardo Jr, County Clerk



APPROVED BY
COMMISSIONERS' COURT
ON: 10/13/16

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: "San Carlos CRC Landscaping, Irrigation, & Retaining Wall" Project in Hidalgo County Precinct No. Four (4)

SERVICES TO BE PROVIDED BY OWNER

The County of Hidalgo will provide **L&G Engineering with Construction Documents, Plans and Specifications** for the ***"San Carlos CRC Landscaping, Irrigation, & Retaining Wall" Project in Hidalgo County Precinct No. Four (4)***

ATTACHMENT "B"
Scope of Services (Engineer)

PROJECT: "San Carlos CRC Landscaping, Irrigation, & Retaining Wall" Project 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 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 will provide The County of Hidalgo with **Construction Materials Testing Services** for the "San Carlos CRC Landscaping, Irrigation, & Retaining Wall" Project 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 acceptance testing of fresh concrete, and Laboratory testing of hardened concrete to determine compliance with project plans and specifications. The following will not be inclusive of the Scope of Services unless it is otherwise requested:
 - Design Submittal Review
 - Trial Batch to Verify Concrete Design prior to placement
 - Concrete Batch Plant Inspection
- 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 material 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 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 is prepared to make a commitment to **The County of Hidalgo's** materials testing needs. L & G Engineering 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 prefers to schedule field and laboratory work with as much advance notice as possible. L & G Engineering 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 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: "San Carlos CRC Landscaping, Irrigation, & Retaining Wall" Project In Hidalgo County Precinct No. Four (4)

Work Schedule

L&G Engineering will provide Hidalgo County Pct. # 4 with Construction Materials Testing Services as outlined in Contract Agreement C-16-305-10-04.

ATTACHMENT "D"
Cost Proposal

PROJECT: "San Carlos CRC Landscaping, Irrigation, & Retaining Wall" Project In Hidalgo County Precinct No. Four (4)

See Attached

Attachment "D"
L&G Engineering
San Carlos CRC Landscaping Irrigation & Retaining Wall
Prepared for Hidalgo County Precinct No. 4

<i>In-Situ Soils Testing-Laboratory</i>						
Standard Proctor	2	Ea.	\$212.50	\$425.00	<i>In Situ Subgrade Moisture-Density Testing on the following:</i>	
Atterberg Limits of Soils	2	Ea.	\$79.66	\$159.32		
Material Finer #200	2	Ea.	\$66.47	\$132.94		
pH testing	4	Ea.	\$86.40	\$345.60		
Sieve Analysis	4	Ea.	\$95.76	\$383.04		
Test Report	6	Ea.	\$23.59	\$141.54		
Technician (Soils)	16	Hr.	\$48.11	\$769.76		
Mileage (Trip Charge)	180	Mi.	\$0.56	\$89.60		
Subtotal:				\$2,446.80		
<i>In-Situ Soils Testing-Field</i>						
Field Density Test	20	Ea.	\$23.91	\$478.20	<i>Testing on the Following: 6 trips to perform testing</i>	
Test Report	6	Ea.	\$23.59	\$141.54		
Technician (Soils)	18	Hr.	\$48.11	\$865.98		
Mileage (Trip Charge)	240	Mi.	\$0.56	\$134.40		
Subtotal:				\$1,620.12		
<i>Cast in Place-Concrete Testing - Retaining Walls</i>						
Air Content(Pressure Method)	6	Ea.	\$23.86	\$143.16	<i>6 site visits for placement testing</i>	
Test Report	6	Ea.	\$23.59	\$141.54		
Technician (Concrete)	18	Hr.	\$48.11	\$865.98		
Mileage (Trip Charge)	240	Mi.	\$0.56	\$134.40		
Subtotal:				\$1,285.08		
Cyl. Spec. Prep, Hold, Cure	24	Ea.	\$12.00	\$288.00	<i>Quantities based on sample pickup and deliver to laboratory for Compression Testing</i>	
Comp. Str. Of Cyl. Specimen	24	Ea.	\$15.92	\$382.08		
Test Reports (7 and 28 day)	12	Ea.	\$23.59	\$283.08		
Technician (Concrete)	18	Hr.	\$48.11	\$865.98		
Mileage (Trip Charge)	240	Mi.	\$0.56	\$134.40		
Subtotal:				\$1,953.54		

Estimated Field and Laboratory Test Fees				\$7,305.54	
Admin/Clerical(Reports) (Hr.)	8		\$56.60	\$452.80	
Laboratory Manager (Report Review)(Hr.)	8		\$96.22	\$769.76	
Project Engineer (Report Review)(Hr.)	8		\$121.69	\$973.52	
Estimated Materials Testing Total				\$9,501.62	

1. **AI-56820** a. Acceptance and approval on an Interlocal Agreement between County of Hidalgo and City of Donna for the provisions of joint efforts for the Mile 12 1/2 (FM 88 - FM 493) Road Improvement Project; and
b. Acceptance and approval of Interlocal Agreement Project: Improvements to Mile 12 1/2 (FM 88 - FM 493) Road.
2. **AI-56811** Acceptance and approval of request by Precinct No.1 for Supplemental No. 1 through Work Authorization No. 3 as submitted by TEDSI Infrastructure Group-Contract #C-08-227-02-09-PO#741616 for modification to original scope of work as more specifically described in Attachment "D" with an increase of \$176,000 to the original amount reflected on the work authorization.
3. **AI-56810** A. Pursuant to Article 14 of Contract #C-08-227-02-09 with TEDSI Infrastructure Group, a request for approval by engineer to permit the subcontracting of Halff & Associates, Inc and Aranda & Associates, Inc., in connection to Work Authorization No. 3 for the "Mile 6 West" project in Precinct One.

B. Pursuant to Article 14 of Contract #C-08-227-02-09 with TEDSI Infrastructure Group, a request for approval by engineer to permit the subcontracting of Cordia SUE, LLC and Half & Associates, Inc., in connection to Work Authorization No. 4 for the "Mile 6 West" project in Precinct One.

C. Pct. 2

1. **AI-56834** Pursuant to contract with L&G Consulting Engineers, Inc. (Article 14), a request for approval by engineer to permit the subcontracting of B2Z Engineering, LLC in connection with Work Authorization No. 1 for the Pct 2 CRC Youth Facility Project.
2. **AI-56764** Authority to advertise (including the authority to re-advertise project in the event that no bids are received and/or are rejected and project is still required) with approval of RFB plans and specifications as developed and drafted by Project Engineer L & G Engineering, for "Regional Linear Park Project - Phase 1"-RFB No. 2016-378-11-30-YZV and subject to TxDOT's approval.


D.

Pct. 4

APPROVED

1. **AI-56824** Acceptance and approval of Work Authorization No. 1 (with an estimated cost of 9,501.62) as submitted by project engineer, L&G Consulting Engineers in connection with Contract# C-16-305-10-04.

EXHIBIT "C" CONTRACT RATES

 <b style="font-size: 1.2em; vertical-align: middle;">L & G Engineering Transportation Consulting Engineers			
Audited Overhead Rate FY 2015			
Labor/Staff Classification	Hourly Base Rate	Contract Rate FY 16	Contract Rate *FY 17
Principal	\$ -	\$ -	\$ -
Senior Project Manager	\$ 70.00	\$ 198.10	\$ 204.04
Engineer (V) - Senior Engineer	\$ 58.00	\$ 164.14	\$ 169.06
Senior Environmental Planner/Specialist	\$ 49.00	\$ 138.67	\$ 142.83
Engineer (III) - Project Engineer	\$ 43.00	\$ 121.89	\$ 125.34
Engineering Lab Manager	\$ 34.00	\$ 96.22	\$ 99.11
Senior Engineer Tech / Geotechnical Engineer	\$ 32.00	\$ 90.56	\$ 93.28
Environmental Planner/Specialist (II)	\$ 30.00	\$ 84.90	\$ 87.45
Project Inspector (V)	\$ 28.00	\$ 79.24	\$ 81.62
Record Keeper	\$ 27.00	\$ 76.41	\$ 78.70
Environmental Planner/Specialist (I)	\$ 26.00	\$ 73.58	\$ 75.79
Project Inspector (I)	\$ 22.00	\$ 62.26	\$ 64.13
CADD Operator / GIS Analyst	\$ 22.00	\$ 62.26	\$ 64.13
Admin/Clerical	\$ 20.00	\$ 56.60	\$ 58.30
Soil & Aggregate Technician	\$ 17.00	\$ 48.11	\$ 49.55
Concrete Technician	\$ 17.00	\$ 48.11	\$ 49.55
Asphalt Technician	\$ 17.00	\$ 48.11	\$ 49.55
Negotiated Overhead Rate: 153.12%	Contract Rates include labor, overhead, and profit		
Negotiated Profit Rate: 12.00%	* Base Contract Rates FY 15 increase by 3% per		
Multiplier: 2.83	FY (FY 17 and FY 18)		
Other Direct Expenses:	Cost:		
Lodging	\$85/night		
Meals	\$36/day		
Mileage	\$0.56/mile		
Car Rental	\$75.00/day		
8 1/2" X 11" copies	\$1.00/sheet		
11" X 17" copies	\$1.50/sheet		
11" X 17" Mylar	\$2.00/sheet		
Overnight Mail - Letter Size	\$15.00/Each		
Overnight Mail - Oversized Box	\$38.00/Each		

CONTRACT RATES

GEOTECHNICAL & CONSTRUCTION MATERIALS TESTING SERVICES

Direct Expenses

<u>Geotechnical Field Services</u>	<u>2016</u>	<u>2017</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)	\$5.35/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>2016</u>	<u>2017</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>2016</u>	<u>2017</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)		

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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>2016</u>	<u>2017</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.
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Concrete/Masonry Field & Laboratory Testing

	<u>2016</u>	<u>2017</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>2016</u>	<u>2017</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.
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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.
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All other project specific, third-party costs will be charged at cost plus 10 percent.