

**L & G Consulting Engineers Inc**  
**2100 W. Expressway 83**  
**Mercedes, TX 78570**  
**(956)565-9813 Fax (956)565-9018**

**INVOICE#: 11327370**  
**INVOICE DATE: 1/31/2019**

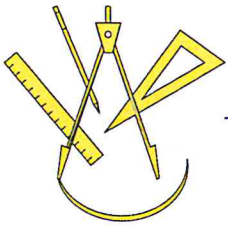
**BILL TO: 34**  
Hidalgo County Pct. #1  
902 Joe Stephens  
Weslaco, TX 78599

**JOB: 180601**  
FM 1015 Project WA#1  
PO# 785461

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
<b>Engineering services for the month of January 2019.</b>						
Work Authorization #1 - Public Involvement, Environmental Re-Evaluation, Schematic Update, Surveying and Hydrologic Design						
10206-Feasibility	30,000.00	30,000.00		30,000.00	100.0	-
11002-Schm Roadway	309,600.00	102,168.00	21,672.00	123,840.00	40.0	185,760.00
11004-Schm Outfalls	360,000.00	136,800.00	7,200.00	144,000.00	40.0	216,000.00
11007-Prelim ROW Req	42,000.00	13,860.00	2,940.00	16,800.00	40.0	25,200.00
11009-Prelim ROW Out	42,000.00	13,860.00	2,940.00	16,800.00	40.0	25,200.00
12002-Pub Invmt (PM)	57,600.00	11,520.00		11,520.00	20.0	46,080.00
12008-Eng/Pub Mtgs	40,000.00	11,200.00		11,200.00	28.0	28,800.00
15006-Field Surveys	98,179.00	92,905.85		92,905.85	94.6	5,273.15
15060-Field Survey/SUB	135,821.00		38,995.00	38,995.00	28.7	96,826.00
16101-Hydro Map	135,000.00	44,500.00	9,450.00	53,950.00	40.0	81,050.00
Sub Total	1,250,200.00	456,813.85	83,197.00	540,010.85		710,189.15
Supplemental #1 to Work Authorization #1 - Revised Scope of Work						
10206-Feasibility	-30,000.00	-30,000.00		-30,000.00	100.0	-
10211-Pre Engineering	30,000.00	12,900.00	900.00	13,800.00	46.0	16,200.00
15006-Field Survey	-78,179.00	-78,179.00		-78,179.00	100.0	-
16403-ProjectMngmnt	78,179.00	33,616.97	2,345.37	35,962.34	46.0	42,216.66
Sub Total	0.00	-61,662.03	3,245.37	-58,416.66		58,416.66
<b>TOTAL:</b>	<b>1,250,200.00</b>	<b>395,151.82</b>	<b>86,442.37</b>	<b>481,594.19</b>	<b>38.5</b>	<b>768,605.81</b>

ORIGINAL CONTRACT SUM	\$	1,250,200.00
CHANGE BY CHANGE ORDER	\$	0.00
CONTRACT SUM TO DATE	\$	1,250,200.00
TOTAL COMPLETED TO DATE	\$	481,594.19
LESS PREVIOUS INVOICES	\$	395,151.82
CURRENT PAYMENT DUE	\$	86,442.37

  
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PROJECT MANAGER'S SIGNATURE



# L&G Engineering

Transportation Consultants

February 1, 2019

Hon. David Fuentes  
Hidalgo County Commissioner, Pct. #1  
**Attn: Amy Saenz-Smith or Erica Espinoza**  
1902 Joe Stevens  
Weslaco, TX 78596

**RE: FM 1015 – WA#1**  
**Limits: Mile 12 to SH 107**  
**PO#785461- L&G Project#180601**

Dear Commissioner Fuentes:

We are submitting a monthly progress report in sufficient detail to support the progress of the work and in support of a request for payment. Attached for your approval is our invoice for services rendered during the month of January 2019.

The following is attached:

- L & G's Invoice (and sub consultant invoice, if applicable)
- Exhibit C – Work Schedule

**Work Authorization#1 – Engineering services required for the preparation of the Public Involvement, Schematic and Hydrologic Design**

		<b>% Complete</b>
<b>FC 10200 – DETERMINE OF LOCAL COST vs STATE COST / FEASIBILITY STUDY and AGREEMENTS/AFA WITH TxDOT/LPA COORDINATION</b>		
<b>Supplemental #1 to Work Authorization #1 revises the scope of work and removes this scope of work</b>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 11002 – SCHEMATIC FOR ROADWAY per TxDOT REQUIREMENTS</b>		
L&G has updated schematic based on new visual imagery obtained via drone. L&G continues to develop the schematic in preparation for an upcoming public meeting. The Schematic has been presented to both TxDOT and the County in its preliminary version.	<b>L&amp;G</b>	<b>40%</b>

<b>FC 11004 – SCHEMATIC FOR OUTFALLS (w/o FIELD VERIFIED EXIST ROW)</b>		
<p>L&amp;G has developed preliminary schematics for each of the eight (8) outfalls identified on the project that include the following:</p> <ul style="list-style-type: none"> <li>• Developed chains (horizontal alignments) along all eight outfalls.</li> <li>• Existing profiles have been generated based on LIDAR information for all eight outfalls.</li> <li>• Existing ROW based on Carson Maps and/or HCCID#9 information and proposed ROW based on HCDD#1 criteria.</li> <li>• All existing structures along outfalls have been visually identified to include on schematics.</li> <li>• L&amp;G has received all updated visual imagery via drone and has updated schematics.</li> <li>• L&amp;G has identified all HCDD#1 Bond projects.</li> </ul>	<b>L&amp;G</b>	<b>40 %</b>
<b>FC 11007 – OFFICE SURVEYS FOR SCHEMATIC (PREL. OWNERSHIP IDENTIFICATION AND PROPERTY RIGHTS) ROADWAY</b>		
<p>L&amp;G has field verified multiple utilities along the project, uploaded the appraisal district database for property ownership and continues to placing the information on the preliminary schematic. L&amp;G has been using “Carson Maps” as an aid in recovering existing ROW information along the outfalls and at intersections.</p>	<b>L&amp;G</b>	<b>40%</b>
<b>FC 11009 – OFFICE SURVEYS FOR SCHEMATIC (PREL. OWNERSHIP IDENTIFICATION AND PROPERTY RIGHTS) 13,240 FT. OF OUTFALLS</b>		
<p>Property owners have been mapped and identified on the proposed schematics based on the appraisal district records and preliminary research of deeds. This is an ongoing deliverable. L&amp;G has been using “Carson Maps” as an aid in recovering existing ROW information along the outfalls.</p>	<b>L&amp;G</b>	<b>40%</b>
<b>FC 12002 – PUBLIC INVOLVEMENT FOR THE PROJECT WITH STAKEHOLDERS AND 1 PUBLIC MEETING</b>		
<p>L&amp;G has presented this project to TxDOT, Hidalgo County, HCDD#1 and presented it to the Mayors of the Cities of Edcouch, Weslaco and Elsa on August 23, 2018. This is an ongoing deliverable.</p>	<b>L&amp;G</b>	<b>20%</b>
<b>FC 12008 – ENGINEERING TECHNICAL SUPPORT AT PUBLIC MEETINGS WITH LAYOUTS etc.</b>		
<p>L&amp;G generated the Preliminary Schematic, Hydrologic Map, Typical Sections for presentation to the various stakeholders. This is an ongoing deliverable.</p>	<b>L&amp;G</b>	<b>28%</b>

<b>FC 15006 – FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF ROADWAY</b>		
<p><b>Supplemental #1 to Work Authorization #1 revises the scope of work.</b></p> <p>L&amp;G Engineering has completed the design survey contracts with the surveyor and identified limits of the surveys and outfalls. The surveyor was provided with a preliminary schematic for their reference and limits of the various outfalls identified. The existing H&amp;V Control as well as the 1<sup>st</sup> Order Survey Control for the Project is being researched for submittal to the Surveyor.</p>	<b>L&amp;G</b>	<b>94.6%</b>
<b>FC 15060 - FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF ROADWAY / SUB</b>		
<p>ROWSS (sub) has performed the following to date:</p> <ul style="list-style-type: none"> <li>• Established primary control based on TxDOT’s geodetic network</li> <li>• Established secondary control based on primary points</li> <li>• Set BM’s throughout project @ 1000 ft spacings</li> <li>• In the process of recovering existing ROW</li> <li>• In the process of establishing/recovering existing centerline of roadway</li> </ul>	<b>ROWSS</b>	<b>28.7%</b>
<b>FC 16101 – HYDROLOGICAL MAP FOR 8 OUTFALL DRAIN DITCHES (OUTFALL AND CAPACITIES)</b>		
<p>L&amp;G will continue to develop the Hydrologic Map in preparation for the upcoming public meeting. Updates and field verification of elevations are ongoing. Hydrologic map has been updated to reflect outfalls as per Master drainage plan in Precinct 1.</p>	<b>L&amp;G</b>	<b>40%</b>

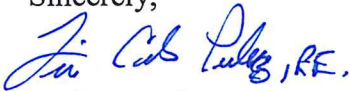
**Supplemental #1 to Work Authorization #1 – Revised Scope of Work**

<b>FC 10200 – DETERMINE OF LOCAL COST vs STATE COST / FEASIBILITY STUDY and AGREEMENTS/AFA WITH TxDOT/LPA COORDINATION</b>		
<p><b>Supplemental #1 to Work Authorization #1 revises the scope of work and removes this scope.</b></p>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 10211 - PRELIMINARY ENGINEERING</b>		
<p><b>Supplemental #1 to Work Authorization #1 revises the scope of work to include this scope.</b></p> <p>L&amp;G along with Comm. Fuentes presented to TxDOT the subject project and received concurrence from TxDOT for the County to take the lead in moving the project forward. David Suarez has been instrumental with L&amp;G Staff in the assignment of MPO funding for the Project.</p>	<b>L&amp;G</b>	<b>46%</b>
<b>FC 15006 – FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF ROADWAY</b>		
<p><b>Supplemental #1 to Work Authorization #1 revises the scope of work.</b></p>	<b>L&amp;G</b>	<b>100%</b>

<b>FC 16403 – PROJECT MANAGEMENT</b>		
<p><b>Supplemental #1 to Work Authorization #1 revises the scope of work.</b></p> <p>Contracts have been developed with all the subcontractors and the County. Several meetings with layouts have been held with City of Edcouch, TxDOT, Hidalgo County Pct #3 and HCDD#1. Meeting was held with TxDOT on January 10, 2019 to discuss TxDOT schematic criteria for on-system projects.</p>	<b>L&amp;G</b>	<b>46%</b>

Should you have any questions or require additional information, please do not hesitate to give me a call at (956) 585-1909.

Sincerely,



Carlos Peralez, P.E.  
Project Manager

# R. O. W. SURVEYING SERVICES, L.L.C.

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January 31, 2019

Jacinto Garza, President/CEO  
L & G Engineering  
Attn: **Carlos Peralez, P.E.**  
2100 W. Expressway 83  
Mercedes, Texas 78570

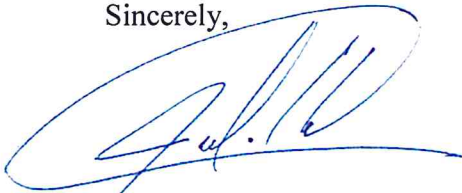
**RE: Invoice #R19-011**  
**FM 1015 Road Project**  
**Work Authorization #44**  
**Limits: From Mile 12 Road to SH 107**

Dear Mr. Peralez:

Attached for your approval is our invoice for services rendered for the month of January, 2019. Additional attachments have a progress report and project Schedule C.

Thank you for your business. Should you have any questions or require additional information, please do not hesitate to give me a call at (956) 424-3335.

Sincerely,



Julio Cerda, P.E.  
President/CEO

# R. O. W. SURVEYING SERVICES, L.L.C.

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## Progress Report as of January, 2019:

### **FC150 Field Surveying (Control Hz & Vt)**

#### **PHASE I – Field Surveying**

##### ***A. Primary Project Control***

a. Establish Primary Control

Field crews have recovered existing TxDOT Level 1 control monuments. Monuments have been checked by RTK methods and are within tolerance to establish secondary control.

##### ***B. Secondary Project Control***

a. Set Additional Secondary Control Points as Needed

Field crews have begun setting secondary points at 1000' spacing.

b. Horizontal Values Established with RTK & VRS

Field crews are establishing horizontal values by RTK methods.

c. Vertical Values Established with Digital Level

Field crews have begun establishing vertical values. Project primary benchmark PHR-109-0079.

#### **PHASE II – DTM Topography & Cross Sections**

##### ***C. Setting Benchmarks***

1. Setting Benchmarks

Field crews have completed setting concrete benchmarks with TxDOT aluminum caps.

2. Topography & Cross Section Survey

No Activities.

3. Locate Visible Utilities

No Activities.

5. Right of Entry, ROW Research, Appraisal Dist. Records

No Activities.

6. Proposed Centerline on Existing Pavement Pre-Construction for Utilities

No Activities.

7. Profile and Cross Section Intersecting Streets

No Activities.

10. Tie Existing Underground and Overhead Utilities Coordinate with Engineer (No SUE)

No Activities.

# R. O. W. SURVEYING SERVICES, L.L.C.

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11. Additional Field Surveying (Irrigation Lines & Driveways & Turnouts)  
No Activities.
14. Provide Temporary Signs, Traffic control, flags, safety equipment, etc.  
No Activities.
15. Ties to Existing Bridges or Culverts that may be in conflict with new construction  
No Activities.
16. Inventory Signs, mailboxes, and driveways  
No Activities.
17. Survey Control Data Sheets as per TxDOT  
No Activities.
19. Coordinate with the Engineer for Existing CL Stationing  
No Activities.
20. Right-of-Way Re-staking (Pre-Construction)  
No Activities.
21. SUE Level a Data Sheets (10 holes per mile = 52 pot holes)  
No Activities.

## **Final Reports & Deliverables**

### **A. CADD file (2D &3D) for limits of Project**

No Activities.

### **B. Final Report and Deliverables**

No Activities.

## **Project Management & Oversight**

### **A. Meeting & Coordination with Engineers**

No Activities.

### **B. QC/QA Survey**

No Activities.

# R. O. W. Surveying Services, L.L.C.

900 S. Stewart Road, Suite 13  
Mission, Texas 78572  
TBPLS Reg. # 10193886  
956-424-3335

## INVOICE

INVOICE NUMBER : R19-011

Date: January 31, 2019

Our Order No.: R18140

**BILL TO:**

Jacinto Garza, P.E.  
L & G Engineering  
Attn: Carlos Peralez, P.E.  
2100 W. Expressway 83  
Mercedes, Texas 78570

**RE: FM 1015 Road Project (Work Authorization No. 44)**

Limits: From Mile 12 Road to SH 107)

Hidalgo County Precinct No. 1 (Work Authorization No. 1)

Task and Description	Contract Amount	Invoice to Date	Paid to Date	Current Amount Due	Contract Balance	Amount
<b>Function Code 150:</b>						
<b>Phase I - FC 150 Field Surveying (Control Hz &amp; Vt)</b>						
<b>A. Primary Project Control</b>						
a. Establish Primary Control	\$7,290.00	\$7,290.00	\$0.00	\$7,290.00	\$0.00	100.00%
<b>B. Secondary Project Control</b>						
a. Set Additional Secondary Control Points as Needed	\$7,843.00	\$7,843.00	\$0.00	\$7,843.00	\$0.00	100.00%
b. Horizontal Values Established with RTK or VRS	\$6,470.00	\$6,470.00	\$0.00	\$6,470.00	\$0.00	100.00%
c. Vertical Values Established with Digital Level	\$6,142.00	\$6,142.00	\$0.00	\$6,142.00	\$0.00	100.00%
<b>Phase II - DTM Topography and Cross Sections (Total Length side streets = 6.2 Miles)</b>						
<b>C. Setting Benchmarks</b>						
1. Setting Benchmark	\$10,850.00	\$10,850.00	\$0.00	\$10,850.00	\$0.00	100.00%
2. Topographic & Cross Sections	\$18,050.00	\$0.00	\$0.00	\$0.00	\$18,050.00	0.00%
3. Locate Visible Utilities	\$14,950.00	\$0.00	\$0.00	\$0.00	\$14,950.00	0.00%
5. Right of Entry, ROW Research, Appraisal District Records	\$4,801.00	\$0.00	\$0.00	\$0.00	\$4,801.00	0.00%
6. Proposed Centerline on Existing Pavement Pre-Construction for Utilities	\$8,602.00	\$0.00	\$0.00	\$0.00	\$8,602.00	0.00%
7. Profile and Cross Section Intersecting Streets	\$5,688.00	\$0.00	\$0.00	\$0.00	\$5,688.00	0.00%
10. Tie Existing Underground & Overhead Utilities Coordinates w/Engineer (No SUE)	\$6,032.00	\$0.00	\$0.00	\$0.00	\$6,032.00	0.00%
<b>11. Additional Field Surveying</b>						
a. Irrigation Lines	\$5,704.00	\$0.00	\$0.00	\$0.00	\$5,704.00	0.00%
c. Driveways and Turnouts	\$3,464.00	\$0.00	\$0.00	\$0.00	\$3,464.00	0.00%
14. Provide temp, signs, traffic control, flags, safety equip., etc.	\$2,790.00	\$0.00	\$0.00	\$0.00	\$2,790.00	0.00%
15. Ties to Existing Bridges/Culverts that may be in conflict w/New Construction	\$6,810.00	\$0.00	\$0.00	\$0.00	\$6,810.00	0.00%
16. Inventory Signs, Mailboxes, & Driveways	\$2,780.00	\$0.00	\$0.00	\$0.00	\$2,780.00	0.00%
17. Survey Control Data Sheets per TxDOT	\$2,480.00	\$0.00	\$0.00	\$0.00	\$2,480.00	0.00%
19. Coordinate with Engineer for Existing CL Staking	\$1,000.00	\$0.00	\$0.00	\$0.00	\$1,000.00	0.00%
20. Right of Way Restaking (Pre-Construction)	\$9,095.00	\$0.00	\$0.00	\$0.00	\$9,095.00	0.00%
21.SUE Level A Data Sheets (10 holes per mile = 52 Pot Holes)	\$984.00	\$0.00	\$0.00	\$0.00	\$984.00	0.00%
<b>Final Report &amp; Deliverables</b>						
A. CADD file (2D & 3D) for limits of project	\$820.00	\$82.00	\$0.00	\$82.00	\$738.00	10.00%
B. Final Report and Deliverables	\$1,320.00	\$132.00	\$0.00	\$132.00	\$1,188.00	10.00%
<b>Project Management and Oversight</b>						
A. Meeting and Coordination w/ Engineers	\$600.00	\$60.00	\$0.00	\$60.00	\$540.00	10.00%
B. QC/QA Survey	\$1,256.00	\$126.00	\$0.00	\$126.00	\$1,130.00	10.03%
<b>GRAND TOTAL:</b>	<b>\$135,821.00</b>	<b>\$38,995.00</b>	<b>\$0.00</b>		<b>\$96,826.00</b>	<b>28.71%</b>
			<b>TOTAL DUE:</b>	<b>\$38,995.00</b>		

**DIRECT ALL INQUIRIES TO:**

JULIO CERDA, P.E.  
(956)451-2670  
email: julio@southtexasig.com

**MAKE ALL CHECKS PAYABLE TO:**

R. O. W. Surveying Services, L.L.C.  
Attn: JULIO CERDA, P.E.  
900 S. Stewart Road, Suite #13, Mission, Texas 78572

**THANK YOU FOR YOUR BUSINESS!**

PROJECT DEVELOPMENT SCHEDULE  
FM 1015  
(FROM MILE 12 TO SH 107)

EXHIBIT C

TASK AND DESCRIPTION	FIRM	2018			2019			2020			2021			2022															
		JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	2022	JUN	DEC				
<b>PH I: EA, Pub Inv. Sch. for ROW &amp; Outfalls</b>																													
Public Involvement																													
Develop Alternatives & Matrix	TxDOT																												
Advertise & Conduct Public Meeting	TxDOT																												
Select TPA	TxDOT																												
Schematic	L&G																												
Design Survey	L&G																												
Develop Schematic	L&G																												
Hydrologic Map	L&G																												
TxDOT Review & Revisions	TxDOT																												
TxDOT Schematic Approval	TxDOT																												
Environmental Document	L&G																												
Field Visits, Submit Technical Reports, etc...	L&G																												
Submit Final Draft Document	L&G																												
Final Review & Approval	L&G																												
Hold Public Hearing/Workshop Opportunity	L&G																												
Environmental Decision	TxDOT																												
<b>Phase II: PS&amp;E for Outfalls and ROW Map</b>																													
PS&E	L&G																												
Compensable Utility Oversight	L&G																												
Outfall Coordination with HCDD #1	L&G																												
30% PS&E Completion	L&G																												
60% PS&E Completion	L&G																												
85% PS&E Completion	L&G																												
100% PS&E Completion	L&G																												
100% M&MS	L&G																												
TxDOT (Austin) Plan Set Approval	L&G																												
Prepare ROW Map for Outfalls	L&G																												
TxDOT Review & Revisions	TxDOT																												
TxDOT ROW Map Approval	TxDOT																												
<b>PH II: ROW Map &amp; Consent For Outfalls</b>																													
ROW Acquisition (Est. 40 Parcels)	TxDOT																												
ROW Acquisition (Consent on Availability of Funds)	L&G																												
Project Administration with County & TxDOT	L&G																												
Coordination with County & TxDOT	L&G																												
Title Commitments	L&G																												
Appraisal Reports	L&G																												
Appraisal Review Reports	L&G																												
Approved Values by TxDOT	L&G																												
Approved Values by TxDOT	TxDOT																												
Acquisition Negotiation Offers	L&G																												
Title Curative Process	L&G																												
Title Commitment Updates	L&G																												
Payments for Parcels	L&G																												
L&G Compensation Support Process	L&G																												
County Support Process by County	L&G																												
Title Insurance Policies	L&G																												
Consummation of Outstanding Cases	L&G																												
<b>Construction</b>																													
Let Project (Est. Earliest Date: May 2021)	County																												
Construction Duration	County																												
Open To Traffic	County																												

L&G FUNCTION  
ENVIRONMENTAL ASSESSMENT WORK  
TxDOT FUNCTION  
HIDALGO COUNTY FUNCTION