

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

**INVOICE#:** 11327833  
**INVOICE DATE:** 9/30/2019

**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 September 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	241,488.00	12,384.00	253,872.00	82.0	55,728.00
11004-Schm Outfalls	360,000.00	280,800.00	14,400.00	295,200.00	82.0	64,800.00
11007-Prelim ROW Req	42,000.00	31,500.00	1,260.00	32,760.00	78.0	9,240.00
11009-Prelim ROW Out	42,000.00	31,500.00	1,260.00	32,760.00	78.0	9,240.00
12002-Pub Invmnt (PM)	57,600.00	23,040.00		23,040.00	40.0	34,560.00
12008-Eng/Pub Mtgs	40,000.00	16,000.00		16,000.00	40.0	24,000.00
15006-Field Surveys	98,179.00	92,905.85		92,905.85	94.6	5,273.15
15060-Field Survey/SUB	135,821.00	59,088.00	11,395.00	70,483.00	51.9	65,338.00
16101-Hydro Map	135,000.00	105,300.00	5,400.00	110,700.00	82.0	24,300.00
Sub Total	1,250,200.00	911,621.85	46,099.00	957,720.85		292,479.15
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	20,400.00	1,200.00	21,600.00	72.0	8,400.00
15006-Field Survey	-78,179.00	-78,179.00		-78,179.00	100.0	-
16403-ProjectMngmnt	78,179.00	53,161.72	1,563.58	54,725.30	70.0	23,453.70
Sub Total	0.00	-34,617.28	2,763.58	-31,853.70		31,853.70
<b>TOTAL:</b>	<b>1,250,200.00</b>	<b>877,004.57</b>	<b>48,862.58</b>	<b>925,867.15</b>	<b>74.1</b>	<b>324,332.85</b>

  
PROJECT MANAGER'S SIGNATURE

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	\$	925,867.15
LESS PREVIOUS INVOICES	\$	877,004.57
<b>CURRENT PAYMENT DUE</b>	<b>\$</b>	<b>48,862.58</b>

# 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 : R19-092

Date: September 30, 2019

Our Order No.: R18140

L&G Job No.: 180601

**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)

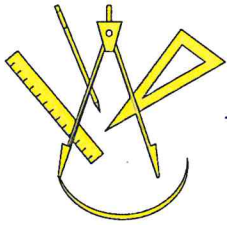
Task and Description	Contract Amount	Invoice to Date	Paid to Date	Current Amount Due	Contract Balance	Amount
<b>Function Code 150:</b>						
<b>Phase I - FC 150 Field Surveying (Control Hz &amp; Vt)</b>						
<b>A. Primary Project Control</b>						
a. Establish Primary Control	\$7,290.00	\$7,290.00	\$7,290.00	\$0.00	\$0.00	100.00%
<b>B. Secondary Project Control</b>						
a. Set Additional Secondary Control Points as Needed	\$7,843.00	\$7,843.00	\$7,843.00	\$0.00	\$0.00	100.00%
b. Horizontal Values Established with RTK or VRS	\$6,470.00	\$6,470.00	\$6,470.00	\$0.00	\$0.00	100.00%
c. Vertical Values Established with Digital Level	\$6,142.00	\$6,142.00	\$6,142.00	\$0.00	\$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	\$10,850.00	\$0.00	\$0.00	100.00%
2. Topographic & Cross Sections	\$18,050.00	\$7,220.00	\$3,610.00	\$1,805.00	\$10,830.00	40.00%
3. Locate Visible Utilities	\$14,950.00	\$5,980.00	\$2,990.00	\$1,495.00	\$8,970.00	40.00%
5. Right of Entry, ROW Research, Appraisal Distrist Records	\$4,801.00	\$2,401.00	\$961.00	\$1,440.00	\$2,400.00	50.01%
6. Proposed Centerline on Existing Pavement Pre-Construction for Utilities	\$8,602.00	\$2,581.00	\$0.00	\$2,581.00	\$6,021.00	30.00%
7. Profile and Cross Section Intersecting Streets	\$5,688.00	\$2,275.00	\$1,138.00	\$568.00	\$3,413.00	40.00%
10. Tie Existing Underground & Oerhead Utilities Coordinae w/Engineer (No SUE)	\$6,032.00	\$2,413.00	\$1,207.00	\$603.00	\$3,619.00	40.00%
11. Additional Field Surveying						
a. Irrigation Lines	\$5,704.00	\$1,712.00	\$1,141.00	\$571.00	\$3,992.00	30.01%
c. Driveways and Turnouts	\$3,464.00	\$1,040.00	\$693.00	\$347.00	\$2,424.00	30.02%
14. Provide temp, signs, traffic control, flags, safety equip., etc.	\$2,790.00	\$1,116.00	\$558.00	\$279.00	\$1,674.00	40.00%
15. Ties to Existing Bridges/Culverts that may be in conflict w/New Constuction	\$6,810.00	\$2,043.00	\$1,362.00	\$681.00	\$4,767.00	30.00%
16. Inventory Signs, Mailboxes, & Driveways	\$2,780.00	\$1,112.00	\$556.00	\$278.00	\$1,668.00	40.00%
17. Survey Control Data Sheets per TxDOT	\$2,480.00	\$496.00	\$0.00	\$248.00	\$1,984.00	20.00%
19. Coordinate with Engineer for Existing CL Staking	\$1,000.00	\$300.00	\$200.00	\$100.00	\$700.00	30.00%
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	\$246.00	\$164.00	\$82.00	\$574.00	30.00%
B. Final Report and Deliverables	\$1,320.00	\$396.00	\$264.00	\$132.00	\$924.00	30.00%
<b>Project Management and Oversight</b>						
A. Meeting and Coordination w/ Engineers	\$600.00	\$180.00	\$120.00	\$60.00	\$420.00	30.00%
B. QC/QA Survey	\$1,256.00	\$377.00	\$252.00	\$125.00	\$879.00	30.02%
<b>GRAND TOTAL:</b>	<b>\$135,821.00</b>	<b>\$70,483.00</b>	<b>\$53,811.00</b>		<b>\$65,338.00</b>	<b>51.89%</b>
			<b>TOTAL DUE:</b>	<b>\$11,395.00</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!

*Julio Cerda*  
9/26/19



# L&G Engineering

Transportation Consultants

October 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 September 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. A meeting was held with TxDOT on June 6, 2019. A Design Concept Conference with TxDOT is scheduled for October 11, 2019.	<b>L&amp;G</b>	<b>82%</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 outfalls on the project that include the following:</p> <ul style="list-style-type: none"> <li>• Determined existing and proposed horizontal alignments along all eight (8) outfalls.</li> <li>• Vertical alignments have been determined based on LIDAR information.</li> <li>• Aerial imagery via drone has been generated for all eight outfalls based on shape files.</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 a “Market” analysis from sub (PAS) to determine ROW costs along outfalls. This analysis was based on comparable sales within the project area.</li> <li>• Construction cost Estimates for all outfalls have been determined.</li> <li>• L&amp;G has identified all HCDD#1 Bond projects.</li> </ul> <p>A meeting with TxDOT and HCDD#1 will be held in October to agree on cost participation of each entity.</p>	<b>L&amp;G</b>	<b>82%</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>78%</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 as well as Texas A&amp;M maps identifying irrigation lines along outfalls.</p>	<b>L&amp;G</b>	<b>78%</b>

<b>FC 12002 – PUBLIC INVOLVEMENT FOR THE PROJECT WITH STAKEHOLDERS AND 1 PUBLIC MEETING</b>		
L&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. <b>No change from prior invoice.</b>	<b>L&amp;G</b>	<b>40%</b>
<b>FC 12008 – ENGINEERING TECHNICAL SUPPORT AT PUBLIC MEETINGS WITH LAYOUTS etc.</b>		
L&G generated the Preliminary Schematic, Hydrologic Map, Typical Sections for presentation to the various stakeholders. This is an ongoing deliverable. <b>No change from prior invoice.</b>	<b>L&amp;G</b>	<b>40%</b>
<b>FC 15006 – FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF ROADWAY</b>		
<p style="color: red;"><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 was given to the Surveyor. <b>No change from prior invoice.</b></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 spacing and developed control sheets</li> <li>• Has recovered existing ROW points throughout the project limits</li> <li>• Has established existing centerline of ROW</li> <li>• Approx. 50% complete on Topo, cross sections, Profiles of intersections</li> </ul>	<b>ROWSS</b>	<b>51.9%</b>
<b>FC 16101 – HYDROLOGICAL MAP FOR 8 OUTFALL DRAIN DITCHES (OUTFALL AND CAPACITIES)</b>		
L&G continues to develop the Hydrologic Map in preparation for the upcoming public meetings. Updates and field verification of elevations are ongoing. Hydrologic map has been updated to reflect outfalls as per Master drainage plan in Precinct 1.	<b>L&amp;G</b>	<b>82%</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>		
<b>Supplemental #1 to Work Authorization #1 revises the scope of work and removes this scope.</b>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 10211 - PRELIMINARY ENGINEERING</b>		
<b>Supplemental #1 to Work Authorization #1 revises the scope of work to include this scope.</b> L&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&G Staff in the assignment of MPO funding for the Project. Meeting was held with TxDOT in June 2019. Estimated cost breakdowns for construction and land costs have been forwarded to TxDOT and HCDD#1 in an effort to establish contributions. A meeting is planned for October with TxDOT and HCDD#1 to agree on cost contributions for each entity.	<b>L&amp;G</b>	<b>72%</b>
<b>FC 15006 – FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF ROADWAY</b>		
<b>Supplemental #1 to Work Authorization #1 revises the scope of work.</b>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 16403 – PROJECT MANAGEMENT</b>		
<b>Supplemental #1 to Work Authorization #1 revises the scope of work.</b> 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. A meeting was held on March 20, 2019 with HCDD#1 to discuss outfalls. Drainage District verbally agreed to participate by purchasing ROW for the outfalls contingent upon TxDOT funding the construction cost of outfalls.	<b>L&amp;G</b>	<b>70%</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

