

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

**INVOICE #: 11325986**  
**INVOICE DATE: 10/31/16**

**BILL TO: 100**

Hidalgo County Executive Office  
 2818 S. Bus. Hwy 281  
 Edinburg, TX 78539

**JOB: 161501**

SH 107/Bus 281 Intersection &  
 Drainage Improv. (@ Courthouse  
 Square & Outfall) PO#750481

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
Engineering services for the month of October 2016.						
11002-Traffic Evalu	30,000.00	3,000.00	3,000.00	6,000.00	20.0	24,000.00
11005-Schem Developm	320,000.00	32,000.00	32,000.00	64,000.00	20.0	256,000.00
11006-Prel. ROW Requ	31,500.00	3,150.00	3,150.00	6,300.00	20.0	25,200.00
11008-Schm Rdwy TxDO	31,500.00				0.0	31,500.00
11020-Traffic Eval/SU	130,613.38	22,683.00		22,683.00	17.4	107,930.38
12001-EA Reports	110,822.80	11,082.28		11,082.28	10.0	99,740.52
12002-Pub Invt (PM)	38,759.68				0.0	38,759.68
12003-Pub Invt (PH)	38,986.08				0.0	38,986.08
12007-Arch & Hist	8,042.86				0.0	8,042.86
12008-Eng/Pub Mtgs	42,000.00	4,200.00	4,200.00	8,400.00	20.0	33,600.00
12009-Eng/Pub Hearin	26,250.00				0.0	26,250.00
12070-Arch & Hist/SU	17,537.20				0.0	17,537.20
13007-Sub-Surface Ut	25,000.00		2,500.00	2,500.00	10.0	22,500.00
13070-Sub-Surface Ut	75,000.00	7,500.00		7,500.00	10.0	67,500.00
15001-Field Survey	50,479.00		15,143.70	15,143.70	30.0	35,335.30
15010-Field Srvy/Sub	167,521.00	16,364.00	30,216.00	46,580.00	27.8	120,941.00
16101-Hydro Map	75,000.00	7,500.00	7,500.00	15,000.00	20.0	60,000.00
16302-Traf Cntrl Pln	72,000.00	7,200.00	7,200.00	14,400.00	20.0	57,600.00
16307- Prel Comp Uti	63,000.00	6,300.00	6,300.00	12,600.00	20.0	50,400.00
60001-ROW Req Admin	216,000.00	21,600.00	21,600.00	43,200.00	20.0	172,800.00
60101-Compens Utilit	113,400.00	11,340.00	11,340.00	22,680.00	20.0	90,720.00
TOTALS:	1,683,412.00	153,919.28	144,149.70	298,068.98	17.7	1,385,343.02

ORIGINAL CONTRACT SUM \$ 1,683,412.00  
 CHANGE BY CHANGE ORDER \$ 0.00  
 CONTRACT SUM TO DATE \$ 1,683,412.00  
 TOTAL COMPLETED TO DATE \$ 298,068.98  
 LESS PREVIOUS INVOICES \$ 153,919.28

PROJECT MANAGER'S SIGNATURE

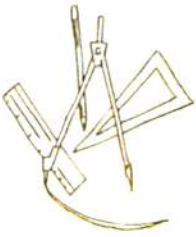
*[Handwritten Signature]*  
 PO# 750481

CURRENT PAYMENT DUE

\$ 144,149.70

6-1350-419-40-125-035-0-730

INVOICE RECEIVED BY: Becky D's on 11/2/16  
 GOODS / SRVS RECEIVED BY: Monica on Oct. 2016



November 1, 2016

Hidalgo County Executive Office  
 Attn: Monica Salinas Badillo, Court Administrator  
 2818 S. Bus. Hwy 281  
 Edinburg, TX 78539

**RE: SH 107/Bus 281 Intersection & Drainage Improvements (Limits: At Courthouse Square & Outfall) PO#750481 - L&G Project#161501**

Dear Ms. Badillo:

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 for the month of October 2016.

- L & G's Invoice
- Exhibit C – Work Schedule

**Work Authorization #1**

<b>FC 11002 ~ CATEGORY III TRAFFIC IMPACT ANALYSIS STUDY</b>		<b>% Complete</b>
<b>UPDATED:</b> L&G has coordinated the efforts of the Traffic Impact Analysis Study. We have conducted a kick off meeting and discussed the needed elements of the study with TxDOT. We have prepared a detailed plan of action to submit to TxDOT for their approval and are awaiting for the County's attorneys to approve before we submit to TxDOT.	<b>L&amp;G</b>	<b>20%</b>
<b>FC 11005 ~ DESIGN SCHEMATIC FOR TRAFFIC CIRCULATION AND OUTFALLS</b>		
<b>UPDATED:</b> L&G has prepared preliminary layouts of the drainage work and has identified and mapped the Level 3 Traffic Impact study area. We continue to develop the detailed schematic.	<b>L&amp;G</b>	<b>20%</b>
<b>FC 11006 ~ OFFICE SURVEYS FOR SCHEMATIC (PRELIM. OWNERSHIP ID &amp; PROP. RIGHTS)</b>		
<b>UPDATED:</b> L&G has field verified multiple utilities along the project, uploaded the appraisal district database for property ownership and has begun placing the information on the preliminary schematic	<b>L&amp;G</b>	<b>20%</b>
<b>FC 11008 ~ UPDATE SCHEMATIC BASED ON COMMENTS AS PROVIDED BY TxDOT/FHWA</b>		
<b>NO UPDATE:</b> This task has not started.	<b>L&amp;G</b>	<b>0%</b>
<b>FC 11020 ~ CATEGORY III IMPACT ANALYSIS STUDY / SUB</b>		
<b>NO UPDATE:</b> All traffic counts and field investigations have been completed. The initial compilation and assessments are ongoing.	<b>ETSI</b>	<b>17.4%</b>
<b>FC 12001 ~ EA REPORTS</b>		
<b>NO UPDATE:</b> The project has been initiated with TxDOT. The scoping document/development tool and corresponding attachments have been prepared.	<b>L&amp;G</b>	<b>10%</b>

<b>FC 12002 – PUBLIC INVOLVEMENT WITH STAKEHOLDERS AND 1 PUBLIC MEETING</b>		
NO UPDATE: This task has not started.	L&G	0%
<b>FC 12003 ~ PUBLIC INVOLVEMENT WITH STAKEHOLDERS AND 1 PUBLIC MEETING</b>		
NO UPDATE: This task has not started.	L&G	0%
<b>FC 12007 ~ ARCHEOLOGICAL AND HISTORICAL RESEARCH</b>		
NO UPDATE: This task has not started.	L&G	0%
<b>FC 12008 ~ ENGINEERING TECHNICAL SUPPORT AT PUBLIC MEETINGS WITH LAYOUTS, ETC.</b>		
UPDATED: L&G has begun developing the required exhibits in preparation for the needed public meeting to be scheduled in the near future. As soon as the plan of action is submitted to TxDOT we will schedule a DCC meeting in order to facilitate the public meeting.	L&G	20%
<b>FC 12009 ~ ENGINEERING TECHNICAL SUPPORT AT PUBLIC HEARINGS WITH LAYOUTS, ETC.</b>		
NO UPDATE: This task has not started.	L&G	0%
<b>FC 12070 ~ ARCHEOLOGICAL AND HISTORICAL RESEARCH / SUB</b>		
NO UPDATE: This task has not started.	AmaTerra	0%
<b>FC 13007 ~ SUB-SURFACE UTILITY ENG. FOR RDWYS SURROUNDING COURTHOUSE</b>		
UPDATED: L&G has coordinated with the surveyor and identified all of the utility lines for the needed SUE work based on the existing crossings that could potentially impact the proposed storm sewer system.	L&G	10%
<b>FC 13070 ~ SUB-SURFACE UTILITY ENG. FOR RDWYS SURROUNDING COURTHOUSE / SUB</b>		
NO UPDATE: ROWSS has begun the preliminary utility research and preliminary utility mapping.	ROWSS	10%
<b>FC 15001 ~ FIELD SURVEY FOR DESIGN &amp; EXIST ROW MAPPING</b>		
UPDATED: L&G has coordinated with the surveyor and identified priority areas for the existing ROW Mapping and provided them with boundaries to begin their design survey work.	L&G	30%
<b>FC 15010 ~ FIELD SURVEY FOR DESIGN &amp; EXIST ROW MAPPING / SUB</b>		
UPDATED: ROWSS has recovered the preliminary boundary & ROW corners along SH 107 & one block outside of the courthouse square. All of the preliminary research is complete and the project basemap is being prepared. Secondary project control points have been set along SH 107 and the courthouse square with horizontal values established by GPS RTK methods and vertical values by digital level loop holding elevation 100.09'.	ROWSS	27.8%

<b>FC 16101 ~ HYDROLOGICAL MAP</b>		
<b>UPDATED:</b> L&G has begun developing a preliminary Hydrologic Map. We will continue to develop the Hydrologic Map in preparation for the upcoming public meeting.	<b>L&amp;G</b>	<b>20%</b>
<b>FC 16302 ~ DEVELOP CONCEPTUAL TRAFFIC CONTROL PLAN OF SH 107 DRAINAGE STRUCTURES</b>		
<b>UPDATED:</b> L&G has begun work on the TCP Typical Sections, Layouts and Sequence of Construction.	<b>L&amp;G</b>	<b>20%</b>
<b>FC 16307 ~ PRELIMINARY COMPENSABLE UTILITY IDENTIFICATION OF SCHEMATIC</b>		
<b>UPDATED:</b> L&G has begun identifying the utilities present on the preliminary schematic from our database. We are currently verifying their existence in the field and coordinating with the individual utility companies for their property interest.	<b>L&amp;G</b>	<b>20%</b>
<b>FC 60001 ~ ROW ACQUISITION PROCESS OF BUSINESS 281 @ COURTHOUSE SQUARE CLOSURE</b>		
<ul style="list-style-type: none"> <li>• Project presence has been established at 900 S. Stewart Road in Mission, Texas 78572 @ L&amp;G Engineering-Transportation Consulting Engineers Right of Way Office. The office is open during normal County and State work hours with available personnel to answer questions about the project.</li> <li>• Project files have been created and are maintained in the office. Personnel are available on a daily basis for project meetings as determined by the County.</li> </ul>	<b>L&amp;G</b>	<b>20%</b>
<b>FC 60101 ~ COMPENSABLE UTILITY COORDINATION FOR BUSINESS 281 @ COURTHOUSE SQUARE</b>		
<b>UPDATED:</b> L&G has begun researching the existing deeds and ROW easement documents along Business 281 within the courthouse square and has coordinated correspondence to TxDOT for their concurrence with our plan of action for the adjustment of the utilities along the proposed abandoned ROW. L&G has coordinated with the City of Edinburg in order to receive their system files for utilities.	<b>L&amp;G</b>	<b>20%</b>

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

Sincerely,

Robert Macheska, P.E., CFM  
Project Manager

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

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October 31, 2016

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

**RE: Invoice #R16-117**  
**Hidalgo County Courthouse Phase I Project**  
**Work Authorization # \_\_\_\_\_**  
**Limits: From Courthouse Square to SH 107 (North Outfall)**

Dear Mr. Macheska:

Attached for your approval is our invoice for services rendered for the month of October, 2016. 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) 451-2670.

Sincerely,



Julio Cerda, P.E.  
President/CEO

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

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## Progress Report as of October 31, 2016:

### **FC130 ROW Map, Parcel Description, Metes & Bounds Description, and Title Reports**

Field crews have recovered preliminary boundary and right of way corners along SH 107 and 1 block outside of courthouse square. Preliminary research complete. Office staff in process of preparing project basemap.

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

#### **PHASE I**

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

Primary control has been recovered and verified. NGS monument Z654 (AE0436) held for second order vertical control, monument EDIN (AE1468) held for first order horizontal control.

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

Secondary points have been set along SH 107 and courthouse square. Horizontal values established by GPS RTK methods, vertical values established by digital level loop holding elevation 100.09' Orthometric height.

#### **PHASE II**

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

###### **1. Setting Benchmarks**

No Activities.

###### **2. Topography & Cross Section Survey**

Filed crews have begun cross sections at courthouse square.

###### **3. Locate Visible Utilities**

Field crews continue to locate utilities within courthouse square.

###### **4. Cross Culverts, Driveway Culverts, Inverts**

Field crews continue to locate utilities within courthouse square.

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

Field crews notify courthouse security when working in close proximity to existing courthouse.

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

No Activities.

###### **7. Profile and Cross Section Intersecting Streets**

Field crews continue to locate streets and structures.

###### **8. Irrigation Crossing**

Existing irrigation lines are being verified.

###### **9. Existing Storm Drain H & V**

Field crews are locating storm sewer structures horizontally. Once field survey complete manhole and structure details will be sketched.

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

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10. Tie Existing Underground & Overhead Utilities w/Engineer (No SUE)

No activities.

11. Additional Field Surveying: Irrigation Lines, Outfalls, & Driveways & Turnouts

Being located as field crews' progress with survey.

15. Profiles of Existing Drainage Facilities

Existing curb inlets, drop inlets, and facilities being located as field crews' progress with survey.

17. Obtain Elevations of Manholes & Valves of Utilities

Valves and manholes are being located horizontally and will be inverted once filed survey complete.

18. Provide Temporary Signs, Traffic control, flags, safety equipment, etc.

Signs placed daily when field crews' onsite.

21. Inventory Signs, Mailboxes, & Driveways

Continued to be located as field crews' progress with survey.

22. Survey Controlled Data Sheets per TxDOT guidelines

No Activities

23. Recover & Establish Existing CL & ROW

Field crews have located preliminary boundary control along SH107 and Courthouse square.

25. Coordinate with the Engineer for Existing CL Staking

No Activities.

26. Subsurface Utility Engineering

a. Courthouse Square

No Activities

b. SH107 & North Outfall

No Activities

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

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## PHASE III

### Final Reports & Deliverables

- A. **CADD file (2D &3D) for limits of Project**  
Office staff continue to update project basemap and field data.
  
- B. **Final Report and Deliverables**
  - Office staff continue to update project basemap and field data.

### Project Management & Oversight

- A. **Meeting & Coordination with Engineers**  
ROWSS continues to update project manager with survey progress.
  
- B. **QC/QA Survey**  
Field data checked daily to verify field crew progress and field data.

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

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

## INVOICE

INVOICE NUMBER : R16-117  
Date: October 31, 2016  
Our Order No.: R16073

**BILL TO:**  
Jacinto Garza, P.E.  
L & G Engineering  
Attn: Robert Macheska, P.E.  
2100 W. Expressway 83  
Mercedes, Texas 78570

RE: Hidalgo County Courthouse-Phase I (Work Authorization No. \_\_\_\_)  
Limits: From Courthouse Square To: SH 107 (North Outfall)

Task and Description	Contract Amount	Invoice to Date	Paid to Date	Current Amount Due	Contract Balance	AMOUNT
<b>Function Code 130 - Right of Way Map</b>						
A. Existing Right of Way 1/2 Block Perimeter around Courthouse Square	\$5,500.00	\$1,375.00	\$0.00	\$825.00	\$4,125.00	25.00%
B. Existing Right of Way along SH107	\$5,000.00	\$1,250.00	\$0.00	\$750.00	\$3,750.00	25.00%
C. Existing Right of Way along North Outfall	\$4,000.00	\$1,000.00	\$0.00	\$600.00	\$3,000.00	25.00%
<b>Sub-Total (FC 130):</b>	<b>\$14,500.00</b>	<b>\$3,625.00</b>	<b>\$0.00</b>	<b>\$2,175.00</b>	<b>\$10,875.00</b>	<b>25.00%</b>
<b>Function Code 150</b>						
<b>Phase I - Field Surveying (Control Hz &amp; Vt)</b>						
<b>A. Primary Project Control</b>						
1. Establish Primary Control	\$3,675.00	\$1,838.00	\$0.00	\$1,470.00	\$1,837.00	50.01%
<b>B. Secondary Project Control</b>						
1. Set Additional Secondary Control Points as Needed	\$4,290.00	\$2,145.00	\$0.00	\$1,716.00	\$2,145.00	50.00%
2. Horizontal Values Established with RTK or VRS	\$3,837.00	\$3,837.00	\$0.00	\$3,453.00	\$0.00	100.00%
3. Vertical Values Established with Digital Level	\$3,673.00	\$3,673.00	\$0.00	\$3,305.00	\$0.00	100.00%
<b>Phase II - DTM Topography and Cross Sections</b>						
<b>C. Setting Benchmarks</b>						
1. Setting Benchmark	\$3,720.00	\$372.00	\$0.00	\$0.00	\$3,348.00	10.00%
2. Topographic & Cross Sections	\$8,570.00	\$2,143.00	\$0.00	\$1,286.00	\$6,427.00	25.01%
3. Locate Visible Utilities						
a. Utilities	\$6,600.00	\$1,650.00	\$0.00	\$990.00	\$4,950.00	25.00%
4. Cross Culverts, Driveway Culverts, Inverts	\$5,880.00	\$1,470.00	\$0.00	\$882.00	\$4,410.00	25.00%
5. Right of Entry, ROW Research, Appraisal Dist. Records	\$3,074.00	\$769.00	\$0.00	\$461.00	\$2,305.00	25.02%
6. Proposed Centerline on Existing Pavement Pre-Construction for Utilities	\$4,466.00	\$447.00	\$0.00	\$0.00	\$4,019.00	10.01%
7. Profile and Cross Section Intersecting Streets	\$5,032.00	\$1,258.00	\$0.00	\$755.00	\$3,774.00	25.00%
8. Irrigation Crossings	\$6,190.00	\$1,548.00	\$0.00	\$929.00	\$4,642.00	25.01%
9. Existing Storm Drain H&V	\$8,250.00	\$2,063.00	\$0.00	\$1,238.00	\$6,187.00	25.01%
10. Tie Existing Underground & Overhead Utilities Coordinate w/Engineer (No. SUE)	\$4,047.00	\$405.00	\$0.00	\$0.00	\$3,642.00	10.01%
11. Additional Field Surveying						
a. Irrigation Lines	\$7,182.00	\$1,796.00	\$0.00	\$1,078.00	\$5,386.00	25.01%
b. Outfalls (Location to be determined)	\$7,218.00	\$1,805.00	\$0.00	\$1,083.00	\$5,413.00	25.01%
c. Driveways and Turnouts	\$3,792.00	\$948.00	\$0.00	\$568.00	\$2,844.00	25.00%
15. Profiles of Existing Drainage Facilities	\$5,688.00	\$1,422.00	\$0.00	\$853.00	\$4,266.00	25.00%
17. Obtain Elevations of Manholes & Valves of Utilities	\$4,120.00	\$1,030.00	\$0.00	\$618.00	\$3,090.00	25.00%
18. Provide tem. signs, traffic control, flags, safety equip., etc.	\$3,720.00	\$930.00	\$0.00	\$558.00	\$2,790.00	25.00%
19. Ties to Existing Bridges or Culvert that may be in conflict w/new const.						
21. Inventory Signs, Mailboxes, & Driveways	\$3,792.00	\$948.00	\$0.00	\$568.00	\$2,844.00	25.00%
22. Survey Control Data Sheets per TxDot	\$3,932.00	\$0.00	\$0.00	\$0.00	\$3,932.00	0.00%
23. Recover & Establish Existing CL & ROW	\$4,046.00	\$1,012.00	\$0.00	\$607.00	\$3,034.00	25.01%
25. Coordinate with the Engineer for Existing CL Staking	\$747.00	\$75.00	\$0.00	\$0.00	\$672.00	10.04%
<b>Phase III - Final Report &amp; Deliverables</b>						
A. CADD file (2D & 3D) for limits of project	\$7,660.00	\$1,915.00	\$0.00	\$1,149.00	\$5,745.00	25.00%
B. Final Report and Deliverables	\$9,160.00	\$2,290.00	\$0.00	\$1,374.00	\$6,870.00	25.00%
<b>Project Management and Oversight</b>						
A. Meeting and Coordination w/ Engineers	\$10,750.00	\$2,688.00	\$0.00	\$1,613.00	\$8,062.00	25.00%
B. QC/QA Survey	\$9,910.00	\$2,478.00	\$0.00	\$1,487.00	\$7,432.00	25.01%
<b>Sub-Total (FC 150):</b>	<b>\$153,021.00</b>	<b>\$42,955.00</b>	<b>\$0.00</b>	<b>\$28,041.00</b>	<b>\$110,066.00</b>	<b>28.0713%</b>
<b>Sub-Total (Field Survey For Design &amp; Exist ROW: FC 130 + FC 150):</b>	<b>\$167,521.00</b>	<b>\$46,580.00</b>	<b>\$0.00</b>	<b>\$30,216.00</b>	<b>\$120,941.00</b>	<b>27.8055%</b>
<b>Subsurface Utility Engineering (SUE)</b>						
a. Courthouse Square (\$1000/per test hole, approximate test holes 450)	\$45,000.00	\$4,500.00	\$0.00	\$0.00	\$40,500.00	10.00%
b. SH107 & North Outfall (\$500/per test hole, approximate test holes 65)	\$30,000.00	\$3,000.00	\$0.00	\$0.00	\$27,000.00	10.00%
<b>Sub-Total (SUE):</b>	<b>\$75,000.00</b>	<b>\$7,500.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$67,500.00</b>	<b>10.0000%</b>
<b>GRAND TOTAL:</b>	<b>\$242,521.00</b>	<b>\$54,080.00</b>	<b>\$0.00</b>	<b>\$30,216.00</b>	<b>\$188,441.00</b>	<b>22.2991%</b>
				<b>TOTAL DUE:</b>	<b>\$30,216.00</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!

