

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

**INVOICE#:** 11329514 ✓  
**INVOICE DATE:** 8/31/2023 ✓

**BILL TO:** 93  
 Hidalgo County Pct. #2 ✓  
 300 W. Hall Acres, Suite G  
 Pharr, TX 78577

**JOB:** 161502  
 Bus 281/SH 107 Roadway Drainage  
 Improvements Project  
 From: Bus 281-W to US 281  
 PO Box 788634 ✓

RECEIVED SEP 01 2023 ✓

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
Engineering services for the month of August 2023. ✓						
Work Authorization #2 - PS&E, Signal Design, Geotechnical Testing, Field Surveys and ROW Mapping for Phase II.						
13002-ROW Mapping	20,413.40 ✓	16,330.72 ✓		16,330.72 ✓	80.0	4,082.68 ✓
13020-ROW Map/SUB	38,500.00 ✓	28,875.00 ✓		28,875.00 ✓	75.0	9,625.00 ✓
15006-Field Surveys	52,491.60 ✓	52,491.60 ✓		52,491.60 ✓	100.0	-
15050-Field Surveys/SUB	99,783.00 ✓	99,783.00 ✓		99,783.00 ✓	100.0	-
16004-PS&E Development	1,474,666.00 ✓	1,459,919.34 ✓		1,459,919.34 ✓	99.0	14,746.66 ✓
16006-Plans to TxDOT	66,000.00 ✓	59,400.00 ✓		59,400.00 ✓	90.0	6,600.00 ✓
16202-Pavement Markings	16,847.45 ✓	15,162.71 ✓		15,162.71 ✓	90.0	1,684.74 ✓
16203-Signal/Illumination	30,288.30 ✓	30,288.30 ✓		30,288.30 ✓	100.0	-
16205-Signal Design	56,121.16 ✓	50,509.04 ✓		50,509.04 ✓	90.0	5,612.12 ✓
16220-Pavement Markings/SUB	55,152.54 ✓	49,787.27 ✓		49,787.27 ✓	90.3	5,365.27 ✓
16230-Signal Illumination/SUB	81,711.70 ✓	81,711.70 ✓		81,711.70 ✓	100.0	-
16250-Signal Design/SUB	170,878.85 ✓	153,940.96 ✓		153,940.96 ✓	90.1	16,937.89 ✓
33001-Geotech Testing	95,000.00 ✓	95,000.00 ✓		95,000.00 ✓	100.0	-
Sub Total	2,257,854.00 ✓	2,193,199.64 ✓	0.00	2,193,199.64 ✓		64,654.36 ✓
Supplemental #1 to Work Authorization #2 - To add Project Management to the Scope of Services						
15006-Field Surveys	47,904.26 ✓	-47,904.26 ✓		-47,904.26 ✓	100.0	-
16403-Project Management	47,904.26 ✓	47,904.26 ✓		47,904.26 ✓	100.0	-
Sub Total	0.00 ✓	0.00 ✓	0.00	0.00 ✓		-
Supplemental #2 to Work Authorization #2 - To Reallocate funds from Illumination Design to Temporary Traffic Signal Design						
16203-Signal/Illumination	16,658.56 ✓	-16,658.56 ✓		-16,658.56 ✓	100.0	-
16230-Signal Illumination/SUB	72,602.49 ✓	-72,602.49 ✓		72,602.49 ✓	100.0	-
16206-Temporary Signal Design	16,658.56 ✓	8,329.28 ✓	6,663.42 ✓	14,992.70 ✓	90.0	1,665.86 ✓
16260-Temporary Signal Desig/SUB	72,602.49 ✓	36,301.25 ✓	29,040.99 ✓	65,342.24 ✓	90.0	7,260.25 ✓
Sub Total	0.00 ✓	-44,630.52 ✓	35,704.41 ✓	-8,926.11 ✓		8,926.11 ✓
TOTAL:	2,257,854.00 ✓	2,148,569.12 ✓	35,704.41 ✓	2,184,273.53 ✓	96.7	73,580.47 ✓

ORIGINAL CONTRACT SUM \$ 2,257,854.00 ✓  
 CHANGE BY CHANGE ORDER \$ 0.00 ✓  
 CONTRACT SUM TO DATE \$ 2,257,854.00 ✓  
 TOTAL COMPLETED TO DATE \$ 2,184,273.53 ✓  
 LESS PREVIOUS INVOICES \$ 2,148,569.12 ✓  
 CURRENT PAYMENT DUE \$ 35,704.41 ✓

  
 PROJECT MANAGER'S SIGNATURE

INVOICE RECEIVED BY:  
Lupita Garza ON 09/01/23  
 GOODS/SERVICES RECEIVED BY:  
Armando Garza ON 08/01-31/23

PO # 788634  
3 -1315-431-00-122-150-0-841  
 Req # 381755  
 \$ 35,704.41

lg 9/5



# L&G Consulting Engineers, Inc.

September 1, 2023

Commissioner Eduardo “Eddie” Cantu  
Attn: Mr. Armando Garza, Chief Administrator  
Hidalgo County Precinct 2  
300 West Hall Acres Rd.  
Pharr, Texas 78589

**RE: SH 107/Bus 281 Intersection & Drainage Improvements (Limits: At Courthouse Square & Outfall) – WA #2 PO#788634 - L&G Project#161502**

Dear Commissioner Cantu:

We are submitting a monthly progress report in sufficient detail to support the progress of the work. Attached for your approval is our invoice for services rendered for the month of August 2023.

The attached is the following:

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

## **Work Authorization #2 – PS&E, Signal Design, Geotechnical Testing, Field Surveys and ROW Mapping for Phase II**

		<b>% Complete</b>
<b>FC 13002 ~ ROW MAP</b>		
<b>NO UPDATE:</b> L&G has continued review of the project basemap provided by ROWSS along with the existing ROW files. The existing ROW has been referenced on the on-going Plan and Profile Sheets as contracts are developed with surveyor.	<b>L&amp;G</b>	<b>80%</b>
<b>FC 13020 ~ ROW MAP / SUB</b>		
<b>NO UPDATE:</b> The existing ROW survey for SH 107 and the drainage outfall is complete. The office staff is completing the details and descriptions.	<b>ROWSS</b>	<b>75%</b>
<b>FC 15006 ~ FIELD SURVEYS</b>		
<b>NO UPDATE:</b> L&G provided final review of ROWSS’s submittals. <b>This task is complete.</b>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 15060 ~ FIELD SURVEYS / SUB</b>		
<b>NO UPDATE:</b> ROWSS has completed all sub-tasks. <b>This task is complete</b>	<b>ROWSS</b>	<b>100%</b>

<b>FC 16004 ~ PS&amp;E DEVELOPMENT</b>		
<p><b>NO INVOICE:</b> L&amp;G continues work on the plan set and is developing the following plan sheets: Title Sheet, Index of Sheets, Project Layout, Typical Sections, TCP Sequence of Construction, TCP Layouts, P&amp;P's, &amp; Culvert Layouts. L&amp;G received direction from the City of Edinburg on the access of the side streets and will incorporate those parameters into the design. L&amp;G continues to work toward a final submittal.</p> <p>Roadway profiles for the BUS 281 (Courthouse square) roadway and the SH 107 roadway were redone as they were too high to match the existing edges of the roadway. New cross sections for the BUS 281 (Courthouse Square) roadway and the SH 107 roadway were redone. The corridor model was redone with the new profiles. The entire drainage system was redone due to the update to the profiles of the BUS 281 (Courthouse square) roadway and the SH 107 roadway. The Traffic Control Plan has been updated due to requests from TxDOT to construct the BUS 281 (Courthouse Square) roadway in different phases, that are independent of the construction of SH 107 roadway. Special Traffic Control Plans were also taken I consideration underneath the I-69C (US 281 Expressway) overpass during the construction of the drainage trunkline. Additional temporary traffic signals were designed due to the increase in TCP phasing. Signing and striping sheets were updated. Storm Water Pollution and Prevention Plans (SW3P) were updated as per the TCP phasing.</p> <p>The 90% PS&amp;E was submitted to TxDOT for their review on January 19, 2023. TxDOT has not been able to provide access to TxDOT Connect but once we receive access we will update.</p> <p>TxDOT provided access to TxDOT Connect and L&amp;G Engineering has updated TxDOT Connect with the latest quantities. Corridor modeling was provided to TxDOT for their use.</p> <p>TxDOT provided comments on the 90% set of plans on March 14, 2023. L&amp;G has begun to update the plan set as necessary.</p> <p>L&amp;G Engineering is updating the PS&amp;E documents for the 95% submittal to TxDOT, utilizing the 95% PS&amp;E TxDOT checklist.</p> <p>L&amp;G Engineering is coordinating with the City of Edinburg for inclusion of their utility plans into the SH 107 roadway plans. Discussions on conflicts are ongoing so that they can adjust their lines accordingly.</p> <p>Coordination continues with the City of Edinburg for inclusion of their utility plans into the plan set. The City of Edinburg is scheduled to submit the utility plan set to L&amp;G by mid July 2023. L&amp;G Engineering continues to QC/QA the plan set as we wait for the City of Edinburg to submit their utility plan set.</p> <p>City of Edinburg submitted their utility plan set to L&amp;G Engineering for review on July 24, 2023. L&amp;G Engineering reviewed their plan set for any conflicts with the proposed drainage system. L&amp;G Engineering provided the City of Edinburg with comments on their plan set, and are waiting for their 100% PS&amp;E package with construction cost estimate for inclusion into the SH 107 plan set.</p>	<b>L&amp;G</b>	<b>99%</b>
<b>FC 16006 ~ PLANS SUBMITTED TO TxDOT</b>		
<p><b>NO UPDATE:</b> L&amp;G has provided a FINAL SIGNED/SEAL Change Order plan set to TxDOT for review/approval. L&amp;G continues to coordinate the</p>	<b>L&amp;G</b>	<b>90%</b>

<p>design with TxDOT to avoid utility conflict.  The 90% PS&amp;E was submitted to TxDOT for their review.  TxDOT provided comments on the 90% set of plans on March 14, 2023.  L&amp;G has begun to update the plan set as necessary.  L&amp;G Engineering is updating the PS&amp;E documents for the 95% submittal to TxDOT, utilizing the 95% PS&amp;E TxDOT checklist.</p>		
<b>FC 16202 ~ PAVEMENT MARKINGS</b>		
<p><b>NO UPDATE:</b> L&amp;G has provided ETSI with all of the roadway files and edge of pavement for their use in the pavement marking details. L&amp;G continues to provide guidance to ETSI on their pavement marking layouts. L&amp;G held several coordination meetings with ETSI to discuss striping concepts. L&amp;G received ETSI's 90% striping submittal and provided comments. L&amp;G updated the project's construction cost estimate based on the quantities supplied from ETSI. L&amp;G also updated the project's General Notes and Specifications based on ETSI's comments.  The 90% PS&amp;E was submitted to TxDOT for their review.</p>	<b>L&amp;G</b>	<b>90%</b>
<b>FC 16203 ~ SIGNAL / ILLUMINATION</b>		
<p><b>NO UPDATE:</b> L&amp;G has provided ETSI with the entire roadway and plan view files for their use in the illumination layouts. L&amp;G continues to provide guidance to ETSI on their illumination layouts.  This task has been reduced by Supplemental No. 2 to Work Authorization No. 2 which reallocates funds from Illumination to Temporary Signal Design.</p>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 16205 ~ SIGNAL DESIGN</b>		
<p><b>NO UPDATE:</b> L&amp;G has provided ETSI with all of the roadway and intersection files for their use in the signal design. L&amp;G continues to provide guidance to ETSI on their signal layouts.  L&amp;G held several coordination meetings with ETSI to discuss the traffic signal concepts. L&amp;G received ETSI's 90% traffic signal submittal and provided comments. L&amp;G updated the project's construction cost estimate based on the quantities supplied from ETSI. L&amp;G also updated the project's General Notes and Specifications based on ETSI's comments.</p>	<b>L&amp;G</b>	<b>90%</b>
<b>FC 16220 ~ PAVEMENT MARKINGS / SUB</b>		
<p><b>NO UPDATE:</b> ETSI has compiled the General Notes, specifications, and striping quantities for the project. Quantity summary sheets have been created. Proposed pavement marking layouts have been generated and have been submitted to L&amp;G Engineering for inclusion into the 90% plan set submittal. Standard sheets were included in the submittal to L&amp;G Engineering.</p>	<b>ETSI</b>	<b>90.3%</b>
<b>FC 16230 ~ SIGNAL / ILLUMINATION / SUB</b>		
<p><b>NO UPDATE:</b> ETSI has completed a field investigation and is developing an Illumination Schematic. ETSI is developing exhibits for different alternatives and comparative cost estimates.  This task has been reduced by Supplemental No. 2 to Work Authorization No. 2 which reallocates funds from Illumination to Temporary Signal Design.</p>	<b>ETSI</b>	<b>100%</b>

<b>FC 16250 ~ SIGNAL DESIGN</b>		
<b>NO UPDATE:</b> ETSI has compiled the General Notes, specifications, and striping quantities for the project. Quantity summary sheets have been created. Proposed traffic signal layouts have been generated and have been submitted to L&G Engineering for inclusion into the 90% plan set submittal. Standard sheets were included in the submittal to L&G Engineering. Condition diagrams, electrical schedules, signal phasing, and timing have been completed.	<b>ETSI</b>	<b>90.1%</b>
<b>FC 33001 ~ GEOTECHNICAL TESTING</b>		
<b>NO UPDATE:</b> Task is complete.	<b>L&amp;G</b>	<b>100%</b>

Supplemental #1 to Work Authorization #2 – To add Project Management to the Scope of Services

<b>FC 15006 ~ FIELD SURVEYS</b>		
<b>Task is complete.</b>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 16403 ~ Project Management</b>		
<b>Task is complete.</b>	<b>L&amp;G</b>	<b>100%</b>

Supplemental #2 to Work Authorization #2 – To Reallocate funds from Illumination Design to Temporary Traffic Signal Design.

<b>FC 16203 ~ SIGNAL / ILLUMINATION</b>		
This task has been reduced by Supplemental No. 2 to Work Authorization No. 2 which reallocates funds from Illumination to Temporary Signal Design.	<b>L&amp;G</b>	<b>100%</b>
<b>FC 16230 ~ SIGNAL / ILLUMINATION / SUB</b>		
This task has been reduced by Supplemental No. 2 to Work Authorization No. 2 which reallocates funds from Illumination to Temporary Signal Design.	<b>ETSI</b>	<b>100%</b>
<b>FC 16206 ~ TEMPORARY SIGNAL DESIGN</b>		
ETSI submitted, to L&G Engineering, the 90% Temporary traffic signal sheets as per the updated TCP requested by TxDOT, for submittal in the 90% PS&E package. Comments were received from TxDOT on the 90% submittal. L&G Engineering coordinated with ETSI on the updates to the traffic control plan sheets. The Temporary traffic signals were updated accordingly and have been submitted to L&G Engineering for inclusion into the 95% PS&E package.	<b>L&amp;G</b>	<b>90%</b>

<b>FC 16260 ~ TEMPORARY SIGNAL DESIGN / SUB</b>		
<p>ETSI completed the Temporary Traffic Signal design sheets as per modifications to the Traffic Control Plans, that were provided by L&amp;G Engineering. Phasing layout sheets, standard sheets, specifications, and construction cost estimates were completed and submitted to L&amp;G Engineering for their 90% PS&amp;E submittal.</p> <p>ETSI coordinated with L&amp;G Engineering for the 95% submittal. Comments on the 90% submittal were received from L&amp;G Engineering and the layouts were updated as necessary. The updated layouts were submitted to L&amp;G Engineering.</p>	<b>ETSI</b>	<b>90%</b>

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

Sincerely,



for Armando J. Sandoval, P.E.  
Project Manager

**ERGONOMIC TRANSPORTATION SOLUTIONS, INC.****INVOICE**

5300 Hollister, Suite 220  
 Houston, Texas 77040  
 Tel. (713) 956-9601  
 Fax (713) 956-9667  
 TAX ID: 76-0583436

INVOICE NUMBER: 2018-11-5  
 INVOICE DATE: 08/31/2023  
 FOR SERVICES PROVIDED FROM: 6/1/2023  
 TO: 8/31/2023

**TO:**  
 Mr. Jacinto Garza, P.E.  
 President  
 L & G Engineering  
 2100 W. Expressway 83  
 Mercedes, Texas 78570

**PROJECT NAME:**  
 BUS 281/SH107 RDWY & DRAINAGE  
 SIGNAL DESIGN FOR  
 COURT HOUSE SQUARE  
 EDINBURG, HIDALGO COUNTY, TX

TASK NO.	DESCRIPTION OF SERVICES PROVIDED	% COMPLETE	TOTAL FEE	AMOUNT EARNED
1	General Notes	90.00	\$725.52	\$652.97
2	Basis of Estimate	90.00	\$4,016.60	\$3,614.94
3	Condition Diagram	90.00	\$8,164.76	\$7,348.28
4	Proposed Signal Plan Layout	90.00	\$20,220.96	\$18,198.86
5	Signal Phasing/Timing	90.00	\$5,311.70	\$4,780.53
6	Electrical Schedules	90.00	\$11,029.84	\$9,926.86
7	Int..Signs, Pav.Markings, Curb Ramps	90.00	\$4,500.26	\$4,050.23
8	Standard Sheets List	90.00	\$1,838.28	\$1,654.45
9	Specifications and Cost Estimate	90.00	\$4,082.26	\$3,674.03
10	Field Investigations and Meetings	90.00	\$1,623.36	\$1,461.02
11	TEMPORARY TRAFFIC SIGNALS	90.00	\$30,020.06	\$27,018.05
12	ADDITIONAL EFFORT FOR TEMPORARY SIGNALS	90.00	\$31,231.14	\$28,108.03
	<u>Expenses:</u>			
	Printing Reproduction	90.00	\$50.00	\$45.00
	Travel	100.00	\$750.00	\$750.00
	Deliveries	90.00	\$50.00	\$45.00
	<b>Total</b>	90.06%	\$123,614.74	\$111,328.26
Amount Invoiced Previously				\$98,835.81
<b>Total Due this Invoice</b>				<b>\$12,492.45</b>

**PLEASE MAKE CHECKS PAYABLE TO:**  
 Ergonomic Transportation Solutions, Inc.  
 Attn: Harry Simeonidis  
 P.O. Box 550344  
 Houston, TX 77255-0344

**THANK YOU FOR GIVING US THE OPPORTUNITY TO SERVE YOU**

**ERGONOMIC TRANSPORTATION SOLUTIONS, INC.**

**INVOICE**

5300 Hollister, Suite 220  
 Houston, Texas 77040  
 Tel. (713) 956-9601  
 Fax (713) 956-9667  
 TAX ID: 76-0583436

INVOICE NUMBER: 2018-11B-5  
 INVOICE DATE: 8/31/2023  
 FOR SERVICES PROVIDED FROM: 6/1/2023  
 TO: 8/31/2023  
 PROJECT NAME:

**TO:**  
 Mr. Jacinto Garza, P.E.  
 President  
 L & G Engineering  
 2100 W. Expressway 83  
 Mercedes, Texas 78570

BUS 281/SH107 RDWY & DRAINAGE  
 SIGNAL DESIGN FOR  
 SH 107: 12TH AVE TO IH 69C  
 EDINBURG, HIDALGO COUNTY, TX

TASK NO.	DESCRIPTION OF SERVICES PROVIDED	% COMPLETE	TOTAL FEE	AMOUNT EARNED
1	General Notes	90.00	\$725.64	\$653.08
2	Basis of Estimate	90.00	\$4,082.82	\$3,674.54
3	Condition Diagram	90.00	\$8,576.60	\$7,718.94
4	Proposed Signal Plan Layout	90.00	\$17,152.98	\$15,437.68
5	Signal Phasing/Timing	90.00	\$4,494.28	\$4,044.85
6	Electrical Schedules	90.00	\$8,576.30	\$7,718.67
7	Int..Signs, Pav.Markings, Curb Ramps	90.00	\$4,500.02	\$4,050.02
8	Standard Sheets List	90.00	\$1,360.75	\$1,224.68
9	Specifications and Cost Estimate	90.00	\$4,494.05	\$4,044.65
10	Field Investigations and Meetings	90.00	\$1,217.51	\$1,095.76
11	TEMPORARY TRAFFIC SIGNALS	90.00	\$22,464.30	\$20,217.87
12	ADDITIONAL EFFORT FOR TEMPORARY SIGNALS	90.00	\$41,371.35	\$37,234.22
	<u>Expenses:</u>			
	Printing Reproduction	90.00	\$50.00	\$45.00
	Travel	100.00	\$750.00	\$750.00
	Deliveries	90.00	\$50.00	\$45.00
	Total	90.06%	\$119,866.60	\$107,954.94
Amount Invoiced Previously (Signals+Illumination)				\$91,406.40
Total Due this Invoice				\$16,548.54

**PLEASE MAKE CHECKS PAYABLE TO:**  
 Ergonomic Transportation Solutions, Inc.  
 Attn: Harry Simeonidis  
 P.O. Box 550344  
 Houston, TX 77255-0344

**THANK YOU FOR GIVING US THE OPPORTUNITY TO SERVE YOU**





# Purchase Order COUNTY OF HIDALGO

PO# 788634

DATE: 11/02/18

PAGE NO: 1 of 1

PO TYPE:

VENDOR: 280046

REQ: 00381755

PHONE: (956) 565-9813

Fax: (956) 565-6746

EMAIL:

SHIP TO: HIDALGO CO. PCT 2

300 WEST HALL ACRES, SUITE G  
PHARR TX 78577

L & G CONSULTING ENGINEERS, INC.  
2100 W. EXPRESSWAY 83  
MERCEDAS TX 78570

CONTACT: ARMANDO GARZA

(956) 787-1891

SITE: COMMISSIONER, PRECINCT 2

CONTRACT NO: C-16-199-07-19

**SPECIAL INSTRUCTIONS:**

**VENDOR NOTES**

1. Do not add to, or alter this Purchase Order. This Order is not renewable.
2. TAX EXEMPTION: This Purchase Order may be accepted in lieu of Exemption Certificate.
3. This Order is also placed F.O.B. Destination. Vendor must repay all shipping costs.
4. Invoice each Purchase Order singly. Original Invoices are required customer copy may be accepted. Out number must appear on all invoices, bills of lading, and packages.
5. Payment will be made only for bona fide and full completed orders, unless otherwise attached.

QTY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
		DO NOT DUPLICATE ORDER		
		WORK AUTHORIZATION APPROVED BY CC 8/21/18 AI#66211		
		C-16-199-07-19 EXPIRES		
		BUS 281/SH107 ROAD AND DRAINAGE IMPROVEMENT PROJECT		
1.00	LOT	CC WORK AUTHORIZATION NO 2 TO PROVIDE ENGINEERING SERVICES REQUIRED FOR THE PREPARATION OF THE PS&E, FIELD SURVEYS, AND ROW MAP ASSOCIATED WITH THE BUS 281/ SH 107 ROADWAY AND DRAINAGE IMPROVEMENT PROJECT	2,257,854.0000	2,257,854.00
		<b>TOTAL:</b>		2,257,854.00
		***** For Hidalgo County use only		
		3-1353-431-00-122-150-0-841	<del>2,257,854.00</del>	1,047,247.49
		3-1315-431-00-122-150-0-841		1,210,606.51

**SCANNED**  
11/7/18

2018 NOV 7 8 58

HIDALGO COUNTY  
PRECINCT NO. 2

Authorized by:

*Martha Salazar*