

EXHIBIT “F”
Supplemental Agreement Form

THE STATE OF TEXAS §
 §
COUNTY OF HIDALGO §

**SUPPLEMENTAL AGREEMENT NO. 1
TO WORK AUTHORIZATION NO. 2
TO AGREEMENT FOR PROFESSIONAL SERVICES
C-16-199-07-19**

This **SUPPLEMENTAL AGREEMENT** is made pursuant to the terms and conditions of Article 8 of the Agreement made by and between **HIDALGO COUNTY**, hereinafter called the “**Owner**”, and **L&G ENGINEERING**, professional engineers of Mercedes, Texas, hereinafter called the “**Engineer**”.

WITNESSETH

WHEREAS, the **Owner** and the **Engineer** executed the Main Contract Agreement on the 28th day of September 2016, concerning professional engineering services for the “**BUS 281 / SH 107 Roadway and Drainage Improvements Project**” for the preparation of the PS&E, Field Surveys and Right-of-Way Map hereinafter referred to as the “**Project**”; and,

WHEREAS, it has become necessary to amend “*Exhibit B, Scope of Services to be provided by the Engineer*” of Work Authorization No. 2 for the following reasons:

1. Add “Project Management – FC 164” to the Scope of Services due to the complexities of coordinating with the various agencies (Texas Department of Transportation, Hidalgo County Metropolitan Planning Organization, Hidalgo County and the Hidalgo County Drainage District No.1) regarding this project; and

WHEREAS, it has become necessary to amend “*Exhibit D-1 – Estimated Man-hour Breakdown of Work Authorization No. 2* to decrease the total proposed costs for Right-of-Way Map, Field Surveys and redirecting those cost differences to Project Management. The total approved cost of this Work Authorization does not increase and/or decrease; and,

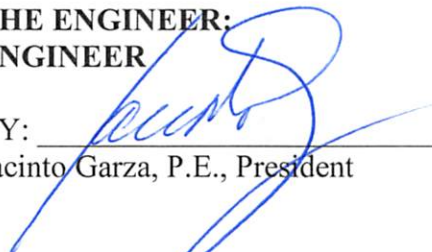
NOW THEREFORE, premises considered, the **Owner** and the **Engineer** agree that said **Agreement** is amended as follows:

Sections of the Agreement, EXHIBIT "B" – SERVICES TO BE PROVIDED BY THE ENGINEER and EXHIBIT "D-1" – ESTIMATED MAN-HOUR BREAKDOWN, are revised to reflect the above listed modifications of this Supplemental.

All other provisions are unchanged and remain in full force and effect.

IN WITNESS WHEREOF, the Engineer and the Owner have caused this Supplemental Agreement to the Agreement for Professional Services to be executed as of the _____ day of _____, 2019.

**THE ENGINEER:
ENGINEER**

BY: 
Jacinto Garza, P.E., President

**THE OWNER:
HIDALGO COUNTY**

BY: _____
County Judge

LIST OF EXHIBITS:

- EXHIBIT B – "Scope of Services to be provided by the Engineer"
- EXHIBIT D-1 – "Project Estimated Fee Schedule"

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 11 – PROJECT MANAGEMENT
(Function Code 164)

Meetings, Coordination & Support for Project Management

The Engineer shall meet and coordinate with the Texas Department of Transportation, Hidalgo County Metropolitan Planning Organization, Hidalgo County and the Hidalgo County Drainage District No. 1 and all other affected parties. The Engineer shall serve as representative for the Owner in coordination items. The Engineer shall coordinate with the Owner's staff on all Project related items.

REVISED EXHIBIT D-1
ESTIMATED MAN-HOUR BREAKDOWN

Bus 281/SH 107 Roadway Drainage Improvements Project
from Bus 281-W to US 281 (I 69 C)

	MANHOURS							TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Project Engineer	GeoTechnical Engineer	Senior Engineering Technician	CADD Operator/GIS Analyst	Admin / Clerical			
CONTRACT RATE	198.10	164.14	121.69	90.56	84.9	62.26	56.60			
WORK AUTHORIZATION NO. 2										
PHASE II - PS&E, FIELD SURVEYS & ROW MAP										
1 Coordination and Management of Subconsultant for ROW Map, Field & Design Survey	60	50	23		24.84			158		\$ 25,000.79
1a SUB: Field Surveys for Design/Construction & ROW Mapping (See fee breakdown on Page 2 of 8)								0	\$ 138,283.00	\$ -
2 PS&E Development Roadway & Outfall	700	1400	2800	800	4536	4800	160.17	15196		\$ 1,474,666.02
3 Traffic Signal Warrants & Design Support ~ Coordination and Management of Subconsultant for Traffic Signal Warrants & Design	40	80	210		90	0	33.04	453		\$ 56,121.16
3a SUB: Permanent and Traffic Signal Design (See fee breakdown on Pages 3 and 4 of 8)								0	\$ 170,878.85	\$ -
4 Illumination Design Support ~ Coordination and Management of Subconsultant for Illumination Design	30	70	105.642		0	0	0	206		\$ 30,288.37
4a SUB: Illumination Design (See fee breakdown on Pages 5 and 6 of 8)								0	\$ 81,711.70	\$ -
5 Pavement Markings Design Support ~ Coordination and Management of Subconsultant for Pavement Markings Design	20	40	51.9346		0	0	0	112		\$ 16,847.52
5a SUB: Pavement Markings Design (See fee breakdown on Pages 7 and 8 of 8)								0	\$ 55,152.54	\$ -
6 Geotechnical Testing for TxDOT	80	110	190	419.34				799		\$ 95,000.02
7 Engineering Fee to create 1 set of plans and submit through TxDOT (Pharr District and Austin Divisions)	48	90	129		160	199.75		627		\$ 66,000.09
8 Project Management to include coordination with TxDOT, HCMPO, Hidalgo Co. and HCDD#1	60	80	120		70.91		40	371		\$ 47,904.26
SUB-TOTAL	1038	1920	3629.5766	1219.341	4881.75	4999.754	233.21	17551	\$ 446,026.09	\$ 1,811,828.24

Sub-Total Manhours Fee with Subconsultant Fee:	\$	2,257,854.33
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* TOTAL PROJECT FEE:	\$	2,257,854.00
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* Rounded Figure

Exhibit "D"
BUDGET
LUMP SUM RATE BASIS OF PAYMENT

Work Authorization No. 2

Highway: S.H. 107										R.O.W. Surveying Services, L.L.C.	
County: Hidalgo County, Texas											
Limits: COURTHOUSE SQUARE TO HWY 281/ EXISTING OUTFALL AT SH 107 TO RAUL LONGORIA											
Description of Work: ROW Map and Design Survey											
TASK AND DESCRIPTION	Survey PM	RPLS	Survey Technician	4-man Survey Crew	3-man Survey Crew	2-man Survey Crew	SUE/per unit	Admin/ Clerical	Total Hours	Cost	
FC 130 ROW Map/ FC 150 Field Surveying	\$124.00	\$125.00	\$82.00	\$175.00	\$155.00	\$130.00	\$500.00	\$50.00			
HOURLY RATE											
PHASE 1 - FC 130 (ROW MAP) Lump Sum per Parcel											
A. ROW Map, Parcel Description, Metes and Bounds Description, and Title Reports (11 parcels @ \$3,500.00/parcel)											
FC 130 Subtotal Cost - Phase 1										\$	38,500.00
PHASE 1 - FC 150 Field Surveying (Control Hz & Vt)											
A. Primary Project Control											
a. Establish Primary Control	0	1	2	0	10	0	0	0	13	\$ 1,839.00	
B. Secondary Project Control											
a. Set additional secondary control points as needed	0	1	8	0	8	0	0	0	17	\$ 2,021.00	
b. Horizontal values established with RTK or VRS	0	1	8	0	8	0	0	0	17	\$ 2,021.00	
c. Vertical values established with digital level	0	1	2	0	0	16	0	0	19	\$ 2,369.00	
Subtotal Hours	0	4	20	0	26	16	0	0	66		
Subtotal Cost - Phase 1	\$0.00	\$500.00	\$1,640.00	\$0.00	\$4,030.00	\$2,080.00	\$0.00	\$0.00		\$ 8,250.00	
PHASE 2 - DTM Topography and Cross sections (Total Length including side streets, Drain, and Irrigation Crossings= 2.6 miles)											
C. Setting Benchmarks											
1. Setting Benchmarks @ 1000(ft) intervals	0	0	0	0	24	0	0	0	24	\$ 3,720.00	
2. Topographic & Crosssections	0	0	16	0	24	0	0	0	40	\$ 5,032.00	
3. Locate Visible Utilities	0	0	16	0	24	0	0	0	40	\$ 5,032.00	
4. Cross Culverts, Driveway Culverts, Inverts											
5. Right of Entry, ROW Research, Appraisal Dist. Records	0	1	8	0	0	0	0	10	19	\$ 1,281.00	
6. Proposed Centerline on Existing Pavement Pre-Construction for Utilities	2	1	16	0	16	0	0	0	35	\$ 4,165.00	
7. Profile and Cross section Intersecting Streets	0	0	8	0	16	0	0	0	24	\$ 3,136.00	
8. Irrigation Crossings	0	0	8	0	8	0	0	0	16	\$ 1,896.00	
9. Existing Storm Drain H&V	0	0	8	0	16	0	0	0	24	\$ 3,136.00	
10. Tie Existing Underground and Overhead Utilities Coordinate with Engineer (No SUE)	2	1	8	0	16	0	0	0	27	\$ 3,509.00	
11. Additional Field Surveying											
a. Irrigation Lanes	2	1	8	0	8	0	0	0	19	\$ 2,269.00	
b. Outfalls	2	1	8	0	8	0	0	0	19	\$ 2,269.00	
c. Driveways and Turnouts	0	0	8	0	16	0	0	0	24	\$ 3,136.00	
15. Profiles of Existing Drainage Facilities	0	0	8	0	8	0	0	0	16	\$ 1,896.00	
17. Obtain Elevations of Manholes and Valves of Utilities	0	0	8	0	8	0	0	0	16	\$ 1,896.00	
18. Provide temp. signs, traffic control, flags, safety equip. etc	0	0	0	0	16	0	0	0	16	\$ 2,480.00	
19. Ties to Existing Bridges or Culverts that may be in conflict with new construction	0	0	8	0	16	0	0	0	24	\$ 3,136.00	
21. Inventory Signs, mailboxes, and driveways	0	0	8	0	16	0	0	0	24	\$ 3,136.00	
22. Survey Control Data Sheets per TxDOT	0	4	8	0	0	0	0	0	12	\$ 1,156.00	
23. Recover and Establish Existing CL and ROW	0	0	0	0	0	0	0	0	0	\$ -	
24. Coordinate with the Engineer for Existing CL Stationing	2	2	0	0	0	0	0	0	4	\$ 498.00	
25. Right of Way Restaking (Pre Construction)	0	2	8	0	16	0	0	0	26	\$ 3,386.00	
26. SUE Level A Data Sheets	0	8	16	0	0	0	0	0	24	\$ 2,312.00	
Subtotal Hours	10	21	184	0	280	0	0	10	505		
Subtotal Cost - Phase 2	\$1,240.00	\$2,625.00	\$15,088.00	\$0.00	\$43,400.00	\$0.00	\$0.00	\$500.00		\$ 62,853.00	
PHASE 3 - SUBSURFACE UTILITY ENGINEERING											
1. Hydro Excavation SUE Level A (20 holes at \$500 each)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$ 10,000.00	
Total Cost-Phase 3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$ 10,000.00	
PHASE 4 - FINAL REPORT & DELIVERABLES											
A. CADD file (2D & 3D) for limits of project											
B. Final Report and Deliverables	8	16	40	0	0	0	0	2	66	\$ 6,372.00	
Subtotal Hours	8	16	80	0	0	0	0	2	106		
Subtotal Cost - Phase 4	\$992.00	\$2,000.00	\$6,560.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100.00		\$ 9,652.00	
PROJECT MANAGEMENT & OVERSIGHT											
A. Meeting & Coordination w/ Engineers											
B. QC/QA Survey	10	10	24	0	0	0	0	2	46	\$ 4,558.00	
Subtotal Hours	15	20	24	0	0	0	0	4	64		
Subtotal Cost - PM & Oversight	\$1,860.00	\$2,500.00	\$1,968.00	\$0.00	\$0.00	\$0.00	\$0.00	\$200.00		\$6,528.00	
Total Fee FC 150	\$4,092.00	\$7,625.00	\$25,256.00	\$0.00	\$47,430.00	\$2,080.00	\$12,500.00	\$800.00	0	\$99,783.00	
Total Fee FC 130 & FC 150										\$138,283.00	

**FEE SCHEDULE FOR TRAFFIC SIGNAL DESIGN
WITHIN THE PROPOSED HIDALGO COUNTY COURT HOUSE SQUARE, IN EDINBURG, TEXAS**

Ergonomic Transportation Solutions, Inc.

PERMANENT AND TEMPORARY TRAFFIC SIGNAL DESIGN		MANHOURS						Total
		No. of sheets (estimated)	Project Manager	Senior Transp. Engineer	Transportation Engineer	CADD Designer	Administrative Assistant	
TASK								
1	General Notes	n/a	1	1	2	1	2	7
2	Basis of Estimate	1	4	8	14	10		36
3	Condition Diagram	4	8	12	32	24		76
4	Proposed Signal Plan Layout	4	24	44	62	44		174
5	Signal Phasing/Timing	n/a	6	12	16	12		46
6	Electrical Schedules	4	14	24	32	24		94
7	Int..Signs, Pav.Markings, Curb Ramps	n/a	2	12	16	12		42
8	Standard Sheets List	12	2	4	6	4		16
9	Specifications and Cost Estimate	1	4	8	16	8		36
10	Coordination and Meetings	n/a	8					8
11	TEMPORARY TRAFFIC SIGNALS	8	38	64	90	64		256
Subtotal		34	111	189	286	203	2	791

Total Sheets/Labor Hours	34	111	189	286	203	2	791
Contract Rates		\$ 68.00	\$ 46.00	\$ 34.00	\$ 23.00	\$ 19.00	
Direct Salary Cost		\$ 7,548.00	\$ 8,694.00	\$ 9,724.00	\$ 4,669.00	\$ 38.00	\$ 30,673.00
Overhead Multiplier	165.260%	\$ 12,473.82	\$ 14,367.70	\$ 16,069.88	\$ 7,715.99	\$ 62.80	\$ 50,690.20
Fixed Fee	12.50%	\$ 2,502.73	\$ 2,882.71	\$ 3,224.24	\$ 1,548.12	\$ 12.60	\$ 10,170.40
Total Labor Costs		\$ 22,524.55	\$ 25,944.42	\$ 29,018.12	\$ 13,933.11	\$ 113.40	\$ 91,533.60

Ergonomic Transportation Solutions, Inc. Expenses

EXPENSES

Printing Reproduction	\$ 50.00
Travel	\$ 750.00
Deliveries	\$ 50.00
Total Expenses	\$ 850.00

ETSI Total Cost

\$ 92,383.60

FEE SCHEDULE FOR TRAFFIC SIGNAL DESIGN
ALONG SH 107 (UNIVERSITY DRIVE) - FROM 12th AVE. TO US 281, IN EDINBURG, TEXAS

Ergonomic Transportation Solutions, Inc.

PERMANENT AND TEMPORARY TRAFFIC SIGNAL DESIGN		MANHOURS						Total
		No. of sheets (estimated)	Project Manager	Senior Transp. Engineer	Transportation Engineer	CADD Designer	Administrative Assistant	
TASK								
1	General Notes	n/a	1	1	2	1	2	7
2	Basis of Estimate	1	6	8	12	8		34
3	Condition Diagram	4	12	18	24	18		72
4	Proposed Signal Plan Layout	4	24	36	48	36		144
5	Signal Phasing/Timing	n/a	6	10	12	10		38
6	Electrical Schedules	4	12	18	24	18		72
7	Int..Signs, Pav.Markings, Curb Ramps	n/a	2	12	16	12		42
8	Standard Sheets List	12	1	2	6	4		13
9	Specifications and Cost Estimate	1	6	10	12	10		38
10	Coordination and Meetings	n/a	6					6
11	TEMPORARY TRAFFIC SIGNALS	3	28	48	68	48		192
Subtotal		29	104	163	224	165	2	658

Total Sheets/Labor Hours	29	104	163	224	165	2	658
Contract Rates		\$ 68.00	\$ 46.00	\$ 34.00	\$ 23.00	\$ 19.00	
Direct Salary Cost		\$ 7,072.00	\$ 7,498.00	\$ 7,616.00	\$ 3,795.00	\$ 38.00	\$ 26,019.00
Overhead Multiplier	165.260%	\$ 11,687.19	\$ 12,391.19	\$ 12,586.20	\$ 6,271.62	\$ 62.80	\$ 42,999.00
Fixed Fee	12.50%	\$ 2,344.90	\$ 2,486.15	\$ 2,525.28	\$ 1,258.33	\$ 12.60	\$ 8,627.25
Total Labor Costs		\$ 21,104.09	\$ 22,375.34	\$ 22,727.48	\$ 11,324.94	\$ 113.40	\$ 77,645.25

Ergonomic Transportation Solutions, Inc. Expenses

EXPENSES

Printing Reproduction	\$ 50.00
Travel	\$ 750.00
Deliveries	\$ 50.00
Total Expenses	\$ 850.00

ETSI Total Cost

\$ 78,495.25

**FEE SCHEDULE FOR ILLUMINATION DESIGN
IN THE VICINITY OF THE PROPOSED HIDALGO COUNTY COURT HOUSE, IN EDINBURG, TEXAS**

Ergonomic Transportation Solutions, Inc.

ILLUMINATION DESIGN			MANHOURS					Total
			No. of sheets (estimated)	Project Manager	Senior Transp. Engineer	Transportation Engineer	CADD Designer	
TASK								
1	Development of Illumination Schematic	4	2	8	24			34
2	General Notes for Illumination	n/a	1	1	4		2	8
3	Quantities Summary Sheets	1	1	1	6	8		16
4	Proposed Illumination Layouts	6	14	22	54	54		144
5	Voltage Drop Calculations	n/a	2	2	12			16
6	Wiring Diagrams	1	2	8	18	18		46
7	Standard Sheets List	12	1	1	6	12		20
8	Specifications	n/a	1	1	6			8
9	Cost Estimate	n/a	1	4	12			17
10	Coordination and Meetings	n/a	8					8
	Subtotal	24	33	48	142	92	2	317

Total Sheets/Labor Hours	24	33	48	142	92	2	317
Contract Rates		\$ 68.00	\$ 46.00	\$ 34.00	\$ 23.00	\$ 19.00	
Direct Salary Cost		\$ 2,244.00	\$ 2,208.00	\$ 4,828.00	\$ 2,116.00	\$ 38.00	\$ 11,434.00
Overhead Multiplier	165.260%	\$ 3,708.43	\$ 3,648.94	\$ 7,978.75	\$ 3,496.90	\$ 62.80	\$ 18,895.83
Fixed Fee	12.50%	\$ 744.05	\$ 732.12	\$ 1,600.84	\$ 701.61	\$ 12.60	\$ 3,791.23
Total Labor Costs		\$ 6,696.49	\$ 6,589.06	\$ 14,407.60	\$ 6,314.51	\$ 113.40	\$ 34,121.06

Ergonomic Transportation Solutions, Inc. Expenses

EXPENSES

Printing Reproduction	\$ 50.00
Travel	\$ 750.00
Deliveries	\$ 50.00
Total Expenses	\$ 850.00

ETSI Total Cost

\$ 34,971.06

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
 Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY CERTIFICATION OF FILING

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

L&G Consulting Engineers, Inc.
 Mercedes , TX United States

Certificate Number:
 2018-429591

Date Filed:
 11/30/2018

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

L&G Consulting Engineers, Inc.

Date Acknowledged:

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

C-16-199-07-19
 BUS 281/SH 107 Roadway and Drainage Improvements Project - Suppl. No. 1 to Work Authorization No. 2

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary
	Garza , Jacinto	Mercedes , TX United States	X	
	Sandoval , Armando	Mercedes, TX United States		X

5 Check only if there is NO Interested Party.

6 UNSWORN DECLARATION

My name is Jacinto Garza, and my date of birth is 10/23/61.
 My address is 2100 W Expressway 83 Mercedes TX 78570 USA
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in Hidalgo County, State of Texas, on the 19th day of January, 2019
(month) (year)

Jacinto Garza
 Signature of authorized agent of contracting business entity
 (Declarant)