

EXHIBIT “F”
Supplemental Agreement Form

THE STATE OF TEXAS §
 §
COUNTY OF HIDALGO §

**SUPPLEMENTAL AGREEMENT NO. 1
TO WORK AUTHORIZATION NO. 1
TO AGREEMENT FOR PROFESSIONAL SERVICES
C-18-195-07-31**

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 8th day of August 2018, concerning professional engineering services for the “**Mile 6 project from Mile 11 to SH 107**” for the preparation of the Environmental Assessment, Public Involvement, Schematic and Hydrologic Design 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. 1 for the following reasons:

1. Remove “Feasibility Studies – FC 102” from the Scope of Services description and replace with “Preliminary Engineering – FC 102”.
2. 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 – Fee Schedules* of Work Authorization No. 1 to decrease the total proposed costs for Sub Surface Utilities, Field Surveys for Outfalls and redirecting those cost differences to Schematic for 9 Outfalls and Project Management. The total approved cost of this Work Authorization does not increase and/or decrease; and,

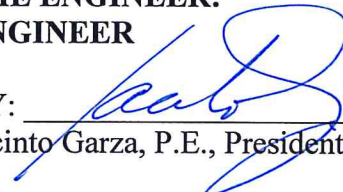
NOW THEREFORE, premises considered, the **Owner** and the **Engineer** agree that said **Agreement** is amended as follows:

- I. Sections of the Agreement, EXHIBIT "B" – SERVICES TO BE PROVIDED BY THE ENGINEER and EXHIBIT "D-1" – PROJECT ESTIMATED FEE SCHEDULE, 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 _____, 2018.

**THE ENGINEER:
ENGINEER**

BY: 
Jacinto Garza, P.E., President

**THE OWNER:
HIDALGO COUNTY**

BY: _____
Ramon Garcia, 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 2 – PRELIMINARY ENGINEERING
(Function Code 102)

Services
Provided By:
ENGINEER LPA

<u>YES</u>	<u>NO</u>	Preliminary Design Values <i>The Engineer will work with the Owner to establish basic design concepts, project controls and general scope of Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Route Locations on Uncontrolled Mapping <i>The Engineer will evaluate various alternatives (route locations, alignment shifts, geometry) for the Project.</i>
<u>YES</u>	<u>NO</u>	Uncontrolled Mapping (w/Contours & GIS Info) <i>The Engineer will investigate the existing routes and coordinate with the Owner on establishing the best-fit alignments and mapping proposed geometry for Projects. Preliminary Location Exhibit will be developed.</i>
<u>NO</u>	<u>NO</u>	Preliminary Traffic Evaluations & Trends <i>The Engineer will investigate existing traffic models and trends for the proposed Projects and adjacent roadways tying into the proposed Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Hydrologic Map <i>The Engineer will develop a Hydrologic Map for the Projects. Hydrologic Maps will be based on LIDAR and GIS information.</i>
<u>YES</u>	<u>NO</u>	Preliminary ROW Requirements <i>The Engineer will research and identify affected property owners on the Projects utilizing the latest appraisal district file information from Hidalgo County Appraisal District and information from Carson Maps.</i>
<u>YES</u>	<u>NO</u>	Preliminary Cost Estimates <i>The Engineer will calculate preliminary construction cost estimates for the location and geometry of the Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Environmental Analysis (for fatal flaws) <i>The Engineer will perform Preliminary Environmental Constraint Mapping to determine if any fatal flaws exist along the proposed alignment.</i>
<u>YES</u>	<u>NO</u>	Project Fact Sheet with Est. Local Cost vs. Total Project Cost <i>The Engineer will produce a Project Fact Sheet providing summaries of all pertinent items in this scope of services (as required) and providing estimated local costs vs. total project costs for the Projects.</i>

EXHIBIT "B"

SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 9 – 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
MILE 6 PROJECT ~ from Mile 11 to SH 107

	Senior Project Manager	Senior Engineer	Senior Environmental Scientist /Specialist	Project Engineer	Right-of-Way Administrator	Senior Engineer Tech	CADD Operator/GIS Analyst	Environmental Planner / Specialist	Admin / Clerical	TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
CONTRACT RATE												
	215.34	180.42	171.69	139.68	197.88	116.40	78.57	84.39	58.20			
SUPPL. NO. 1 TO WORK AUTH. NO. 1 - WITH HIDALGO COUNTY												
<i>PHASE I - EA, PUBLIC INVOLVEMENT & SCHEMATIC DESIGN</i>												
1	40	62		62					26.464	190.464		\$ 30,000.00
2			270				202	280	9.336	761.336		\$ 86,400.00
3	24	24	80	30	24	22	16	80	7.868	307.868		\$ 43,200.00
4											\$ 27,333.60	\$ -
5			42				10	24	2.481	78.481		\$ 10,166.43
6	10	10		34		232			4.957	290.957		\$ 36,000.02
7	40	72		594			958		2.684	1666.684		\$ 180,000.03
8	80	144		1100			2,030		27.272	3381.272		\$ 357,940.01
9	8	16		80				28	2.440	134.440	\$ 21,711.28	\$ 18,288.77
10	8	8		80		150			3.428	249.428	\$ 245,060.00	\$ 32,000.00
11	20	10		60		51			6.750	147.750	\$ 10,540.00	\$ 20,821.05
12				36		26			3.198	65.198	\$ 65,759.00	\$ 8,241.00
13	24	95		290			345.994			754.994		\$ 90,000.01
14	24	32		255	180	60			14.392	565.392		\$ 90,000.01
15	16	24		100		160		50	7.096	357.096		\$ 45,000.01
16	100	120		1000					77.742	1297.742		\$ 187,389.01
SUB-TOTAL	394	617	392	3721	204	701	3561.994	462	196.11	8951.360	\$ 370,403.88	\$ 1,235,446.35

Sub-Total Manhours Fee with Subconsultant Fee: \$ 1,605,850.23

* TOTAL PROJECT FEE - WORK AUTH. NO. 1 (Original Cost does not Increase / Decrease with this Supplemental):	\$ 1,605,850.00
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* Rounded Figure

Cultural Resource Investigations
Mile 6 Road: From Mile 11 to 13 ½ Mile Road (2.5 Miles)
Hidalgo County, Texas

COST BREAKDOWN										
Mile 6: Mile 11 to Mile 13.5 (2.5 Miles) - Combined										
LABOR	PCR	Permit App/ Research Design	Fieldwork	Draft and Final Reports	Curation	Admin and Project Mgmt	Total	Unit	Unit Price	Cost
Principal	0	0	0	0	0	2	2	hr	\$ 216.00	\$ 432.00
Archeologist V/ Jr. Principal Investigator	0	0	0	0	0	2	2	hr	\$ 101.00	\$ 202.00
Archeologist IV	0	0	0	0	0	0	0	hr	\$ 91.00	\$ -
Archeologist III	0	4	24	6	4	0	38	hr	\$ 79.00	\$ 3,002.00
Archeologist II	1	4	24	4	0	0	33	hr	\$ 73.00	\$ 2,409.00
Archeologist I	0	0	0	0	8	0	8	hr	\$ 62.00	\$ 496.00
Historical Architect/ Senior Historian IV	0	0	0	2	0	2	4	hr	\$ 147.00	\$ 588.00
Architectural Historian III	0	0	0	24	0	0	24	hr	\$ 104.00	\$ 2,496.00
Historian II	0	0	0	0	0	0	0	hr	\$ 82.00	\$ -
GIS Specialist	0	1	0	10	1	0	12	hr	\$ 91.00	\$ 1,092.00
Administrative/ Document Production Supervisor	0	0	0	0	0	4	4	hr	\$ 88.00	\$ 352.00
Editor	0	0	0	6	0	0	6	hr	\$ 68.00	\$ 408.00
TOTAL LABOR										\$11,477.00
EXPENSES	PCR	Permit App/ Research Design	Fieldwork	Draft and Final Reports	Curation	Admin and Project Mgmt	Total	Unit	Unit Price	Cost
Copies, b/w	0	10	50	450	100	20	630	each	\$ 0.10	\$ 63.00
Copies, color	0	10	10	350	100	20	490	each	\$ 1.00	\$ 490.00
Mileage	0	0	600	0	0	0	600	mile	\$ 0.56	\$ 336.00
Lodging (NTE)	0	0	4	0	0	0	4	night	\$ 88.00	\$ 352.00
Taxes, lodging (15%)	0	0	4	0	0	0	4	night	\$ 13.20	\$ 52.80
Meals	0	0	6	0	0	0	6	day	\$ 51.00	\$ 306.00
Curation					0.25		0.25	drawer	\$2,360.00	\$ 590.00
TOTAL EXPENSES										\$ 2,189.80
TOTAL										\$13,666.80

Cultural Resource Investigations
Mile 6 Road: From 13 ½ Mile Road to SH107 (3.0 Miles)
Hidalgo County, Texas

COST BREAKDOWN									
Mile 6: Mile 13.5 to SH 107 (3.0 Miles) - Combined									
LABOR	Permit App/ Research Design	Fieldwork	Draft and Final Reports	Curation	Admin and Project Mgmt	Total	Unit	Unit Price	Cost
Principal	0	0	0	0	2	2	hr	\$ 216.00	\$ 432.00
Archeologist V/ Jr. Principal Investigator	0	0	0	0	2	2	hr	\$ 101.00	\$ 202.00
Archeologist IV	0	0	0	0	0	0	hr	\$ 91.00	\$ -
Archeologist III	4	24	6	4	0	38	hr	\$ 79.00	\$ 3,002.00
Archeologist II	4	24	4	0	0	33	hr	\$ 73.00	\$ 2,409.00
Archeologist I	0	0	0	8	0	8	hr	\$ 62.00	\$ 496.00
Historical Architect/ Senior Historian IV	0	0	2	0	2	4	hr	\$ 147.00	\$ 588.00
Architectural Historian III	0	0	24	0	0	24	hr	\$ 104.00	\$ 2,496.00
Historian II	0	0	0	0	0	0	hr	\$ 82.00	\$ -
GIS Specialist	1	0	10	1	0	12	hr	\$ 91.00	\$ 1,092.00
Administrative/ Document Production Supervisor	0	0	0	0	4	4	hr	\$ 88.00	\$ 352.00
Editor	0	0	6	0	0	6	hr	\$ 68.00	\$ 408.00
TOTAL LABOR									\$11,477.00
EXPENSES	Permit App/ Research Design	Fieldwork	Draft and Final Reports	Curation	Admin and Project Mgmt	Total	Unit	Unit Price	Cost
Copies, b/w	10	50	450	100	20	630	each	\$ 0.10	\$ 63.00
Copies, color	10	10	350	100	20	490	each	\$ 1.00	\$ 490.00
Mileage	0	600	0	0	0	600	mile	\$ 0.56	\$ 336.00
Lodging (NTE)	0	4	0	0	0	4	night	\$ 88.00	\$ 352.00
Taxes, lodging (15%)	0	4	0	0	0	4	night	\$ 13.20	\$ 52.80
Meals	0	6	0	0	0	6	day	\$ 51.00	\$ 306.00
Curation				0.25		0.25	drawer	\$2,360.00	\$ 590.00
TOTAL EXPENSES									\$ 2,189.80
TOTAL									\$13,666.80



L&G Eneengineering

Traffic Projection for: **Mile 6, Weslaco, TX**
 Sub-consultant: C&M ASSOCIATES, INC.
 Schedule Duration: Four Weeks after NTP

DESCRIPTION	Project Manager	Project Engineer III	Document Controller	Total Labor Hrs.	Remarks	Task Cost
Task 1. Review of existing information	8	16		24		\$ 3,877.84
Task 2. TDM model runs	16	32		48		\$ 7,755.68
Task 3. Prepare forecasts	8	16		24		\$ 3,877.84
Task 4. Documentation	8	16	4	28		\$ 4,199.92
Subtotal	40	80	4	124		\$ 19,711.28
HOURS TOTAL	40	80	4	124		
LABOR RATE PER HOUR	\$252.69	\$116.02	\$80.52			
TOTAL DIRECT LABOR COSTS	\$ 10,107.60	\$ 9,281.60	\$ 322.08	\$ 19,711.28		
PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON FEE)	51.28%	47.09%	1.63%	100.00%	CHECK	
PERCENT LABOR UTILIZATION FOR TOTAL PROJECT (BASED ON MANHOUR)	32.26%	64.52%	3.23%	100.00%	\$ 19,711.28	
TOTAL DIRECT LABOR COST						\$ 19,711.28
Traffic count (7 day, classification)						\$ 2,000.00
TOTAL DIRECT EXPENSES*						\$ 2,000.00
GRAND TOTAL						\$ 21,711.28

* Direct expense will be charged based actual cost

Traffic Projection for:	Mile 6, Weslaco, TX			
Task Description	Schedule			
	Timeline			
	Wk1	Wk2	Wk3	Wk4
Task 1. Review of existing information	█			
Task 2. TDM model runs	█	█		
Task 3. Prepare forecasts		█	█	
Task 4. Documentation			█	█



QUINTANILLA, HEADLEY AND ASSOCIATES, INC.

Consulting Engineers ★ Land Surveyors

Attonso Quintanilla, P.E., R.P.L.S.
 Engineering Firm Registration No. F-1513
 Surveying Firm Registration No. 100411-00
 Municipal & County Engineers ★ Subdivisions Surveys
 124 E. Santa Fe Blvd., Suite 100
 Phoenix 85021-4480 Fax 866.291.4927
 Email: office@qhengineering.com
www.qhengineering.com

Mile 6 - From 0.3 Mi. N. of Mile 11 to SH 107

Project	Field Survey (RDWY)	Field Survey (OUTFALLS)	Sub-Surface Utility Engineering (\$U.E.)	Total Cost (FJUNC 150)
Mile 6	\$158,100.00	\$86,960.00	\$10,540.00	\$255,600.00

