

**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-18-196-08-14**

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 22<sup>nd</sup> day of August 2018, concerning professional engineering services for the “**FM 1015 project from Mile 12 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 “Level of Service Analysis and Engineering – 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 Field Surveys of Roadway and redirect the reduced amount 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:

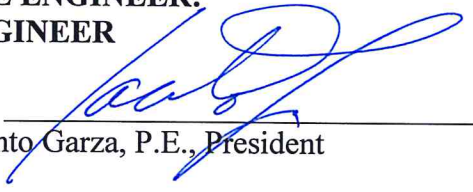
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- I. Sections of the Agreement, EXHIBIT "B" – SERVICES TO BE PROVIDED BY THE ENGINEER and EXHIBIT "D-1" – PROJECT ESTIMATED FEE SCHEDULE, are revised to reflect the above listed modifications of this Supplemental.

**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:		
<u>ENGINEER</u>	<u>LPA</u>	
<u>YES</u>	<u>N/A</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>N/A</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>N/A</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>N/A</u>	<u>N/A</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>N/A</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>N/A</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>N/A</u>	Preliminary Cost Estimates <i>The Engineer will calculate preliminary construction cost estimates for the location and geometry of the Projects.</i>
<u>NO</u>	<u>N/A</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>N/A</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

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**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**  
**WORK AUTHORIZATION NO. 1**  
**PHASE I - PART I**  
**FM 1015 ~ from Mile 12 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			
<b>SUPPL. NO. 1 TO WORK AUTHORIZATION NO. 1 - WITH HIDALGO COUNTY</b>												
<b>PHASE I - EA, PUBLIC INVOLVEMENT &amp; SCHEMATIC DESIGN</b>												
1 Preliminary Engineering	35	70		60					24.964	189.964		\$ 30,000.00
2 Public Involvement for the project with stakeholders and 1 Public Meeting	25	24	80	30	24	109	30	110	15.191	447.191		\$ 57,600.02
3 Engineering Technical Support at Public Meetings with Layouts etc.				60		270			3.286	333.286		\$ 40,000.05
4 Field Surveys for Design and Construction of ROADWAY (SUB - See Page 2 of 2)	10	10		70			74		7.743	171.743	\$ 135,821.00	\$ 20,000.02
5 Hydrological Map for 8 Outfall Drain Ditches outfalls and capacities	40	95		500			500		2.088	1137.088		\$ 135,000.02
6 Office Surveys for Schematic (Prel. Ownership Ident and Property Rights) ROADWAY	12	16		130	75	22			16.650	271.650		\$ 42,000.03
7 Office Surveys for Schematic (Prel. Ownership Ident and Property Rights) 13,240 ft of	12	24		108	75	40			8.650	267.650		\$ 42,000.03
8 Schematic for Roadway per TxDOT Requirements	80	200		740		784	784		1.188	2589.188		\$ 309,600.02
9 Schematic for 8 Outfalls (w/o field verified exist ROW)	120	260		840		870	870		5.067	2965.067		\$ 360,000.00
10 Project Management to include coordination with TxDOT, HCMPO, Hidalgo Co. and HCDD#1	50	60		400					12.282	522.282		\$ 78,179.01
<b>SUB-TOTAL</b>	<b>334</b>	<b>699</b>	<b>80</b>	<b>2538</b>	<b>174</b>	<b>2095</b>	<b>2258</b>	<b>110</b>	<b>84.827</b>	<b>8372.827</b>	<b>\$ 135,821.00</b>	<b>\$ 1,114,379.20</b>

Sub-Total Manhours Fee with Subconsultant Fee: \$ 1,250,200.20

<b>* TOTAL PROJECT FEE - WORK AUTH. NO. 1 (Original Cost does not Increase / Decrease with this Supplemental):</b>	<b>\$ 1,250,200.00</b>
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\* Rounded Figure

**Exhibit "D-1"**  
**BUDGET**  
**LUMP SUM RATE BASIS OF PAYMENT**

Work Authorization No. \_\_\_\_\_

	A	B	C	D	E	F	G	H	I	J	K
1	Highway: FM 1015										
2	County: Hidalgo County, Texas										
3	Limits: 12 Mile to SH 107										
4	Description of Work: ROW Map and Design Survey										
5	<b>TASK AND DESCRIPTION PART 1</b>	Survey		Survey	4-man	3-man	2-man		Admin/	Total	Cost
6	FC 150 ROW Map / FC 150 Field Surveying	PM	RPLS	Technician	Survey Crew	Survey Crew	Survey Crew	SUE/per unit	Clerical	Hours	
7	<b>HOURLY RATE</b>	\$124.00	\$125.00	\$82.00	\$175.00	\$155.00	\$130.00	\$500.00	\$50.00		
11	<b>PHASE 1 - FC 150 Field Surveying (Control Hz &amp; Vt)</b>										
12	A. Primary Project Control										
13	a. Establish Primary Control	0	8	20	0	30	0	0	0	58	\$ 7,290.00
14	B. Secondary Project Control										
15	a. Set additional secondary control points as needed	0	16	24	0	25	0	0	0	65	\$ 7,843.00
16	b. Horizontal values established with RTK or VRS	0	8	10	0	30	0	0	0	48	\$ 6,470.00
17	c. Vertical values established with digital level	0	8	6	0	30	0	0	0	44	\$ 6,142.00
18	<b>Subtotal Hours</b>	0	40	60	0	115	0	0	0	215	
19	<b>Subtotal Cost - Phase 1</b>	\$0.00	\$5,000.00	\$4,920.00	\$0.00	\$17,825.00	\$0.00	\$0.00	\$0.00		\$ 27,745.00
20	<b>PHASE 2 - DTM Topography and Cross sections (Total Length including side streets =6.2 miles)</b>										
21	C. Setting Benchmarks										
22	1. Setting Benchmarks @ 1000'(ft) intervals	0	0	0	0	70	0	0	0	70	\$ 10,850.00
23	2. Topographic & Crosssections	0	0	50	0	90	0	0	0	140	\$ 18,050.00
24	3. Locate Visible Utilities	0	0	50	0	70	0	0	0	120	\$ 14,950.00
25	5. Right of Entry, ROW Research, Appraisal Dist. Records	0	8	40	0	0	0	0	10.42	58.42	\$ 4,801.00
26	6. Proposed Centerline on Existing Pavement Pre-Construction for Utilities	0	8	36	0	30	0	0	0	74	\$ 8,602.00
27	7. Profile and Cross section Intersecting Streets	0	0	24	0	24	0	0	0	48	\$ 5,688.00
28	10. Tie Existing Underground and Overhead Utilities Coordinate with Engineer (No SUE)	0	8	16	0	24	0	0	0	48	\$ 6,032.00
29	11. Additional Field Surveying										
30	a. Irrigation Lines	0	8	12	0	24	0	0	0	44	\$ 5,704.00
31	c. Driveways and Turnouts	0	0	12	0	16	0	0	0	28	\$ 3,464.00
32	14. Provide temp. signs, traffic control, flags, safety equip. etc.	0	0	0	0	18	0	0	0	18	\$ 2,790.00
33	15. Ties to Existing Bridges or Culverts that may be in conflict with new construction	0	0	15	0	36	0	0	0	51	\$ 6,810.00
34	16. Inventory Signs, mailboxes, and driveways	0	0	15	0	10	0	0	0	25	\$ 2,780.00
35	17. Survey Control Data Sheets per TxDOT	0	10	15	0	0	0	0	0	25	\$ 2,480.00
36	18. Recover and Establish Existing CL and ROW	0	0	0	0	0	0	0	0	0	\$ -
37	19. Coordinate with the Engineer for Existing CL Stationing	0	8	0	0	0	0	0	0	8	\$ 1,000.00
38	20. Right of Way Restaking (Pre Construction)	0	15	20	0	36	0	0	0	71	\$ 9,095.00
39	21. SUE Level A Data Sheets (10 holes per mile) 52 Pot holes	0	0	0	0	0	0	0	0	0	\$ -
40	<b>Subtotal Hours</b>	0	65	305	0	448	0	0	10.42	828.42	
41	<b>Subtotal Cost - Phase 1</b>	\$0.00	\$8,125.00	\$25,010.00	\$0.00	\$69,440.00	\$0.00	\$0.00	\$521.00		\$ 103,096.00
42	<b>FINAL REPORT &amp; DELIVERABLES</b>										
43	A. CADD file (2D & 3D) for limits of project	0	0	10	0	0	0	0	0	10	\$ 820.00
44	B. Final Report and Deliverables	0	4	10	0	0	0	0	0	14	\$ 1,320.00
45	<b>Subtotal Hours</b>	0	4	20	0	0	0	0	0	24	
46	<b>Subtotal Cost - Phase 1</b>	\$0.00	\$500.00	\$1,640.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$ 2,140.00
47	<b>PROJECT MANAGEMENT &amp; OVERSIGHT</b>										
48	A. Meeting & Coordination w/ Engineers	0	4	12	0	0	0	0	2	18	\$ 1,584.00
49	B. QC/QA Survey	0	4	8	0	0	0	0	2	14	\$ 1,256.00
50	<b>Subtotal Hours</b>	0	8	20	0	0	0	0	4	32	
51	<b>Subtotal Cost - PM &amp; Oversight</b>	\$0.00	\$1,000.00	\$1,640.00	\$0.00	\$0.00	\$0.00	\$0.00	\$200.00	0	\$2,840.00
52											
53	<b>Total Fee FC 150 Field Surveys</b>	\$0.00	\$14,625.00	\$33,210.00	\$0.00	\$87,265.00	\$0.00	\$0.00	\$721.00	1099.42	\$135,821.00
54	<b>Total Fee FC 150</b>										\$135,821.00