

THE STATE OF TEXAS §
 §
COUNTY OF HIDALGO §

SUPPLEMENTAL AGREEMENT NO. 2
TO WORK AUTHORIZATION NO. 1
AGREEMENT FOR PROFESSIONAL SERVICES
C-15-136-06-02

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 Agreement** on the 2nd day of June, 2015 concerning engineering for the Ware Road (FM 2220) (from FM 676 (Mile 5) to FM 1925) project for Hidalgo County Precinct No. 4 (hereinafter referred to as the “**Project**”); and,

WHEREAS, it has become necessary to amend Work Authorization No. 1 to include the additional scope of work and costs associated with the cultural resources associated with the Ware Road project.

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. To add “Archeological and Historical FC 12070” to the Scope of Services to include additional Cultural Resource Investigations

WHEREAS, it has become necessary to amend “*Exhibit D-1 – Estimated Man-Hour Breakdown*” of Work Authorization No. 1 for the following reasons:

2. To add “Archeological and Historical FC 12070” to the Scope of Services to include additional Cultural Resource Investigations

WHEREAS, the Estimated Cost from the original Work Authorization No. 1 will increase from \$1,383,168.54 to \$1,410,038.14; therefore the amount of Supplemental No. 2 is an increase of \$26,869.60.

A. AGREEMENT

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

- I. Exhibit B – Scope of Services in Work Authorization No. 1 is amended to include additional Cultural Resource Investigations, and
- II. Exhibit D-1 – Estimated Man-Hour Breakdown in Work Authorization No. 1 is amended to include the additional costs associated with the Cultural Resource Investigations for the project.

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 _____, 2020.

**THE ENGINEER:
L&G ENGINEERING**

BY: _____
Jacinto Garza, P.E., President

**THE OWNER:
HIDALGO COUNTY**

BY: _____
Richard Cortez, County Judge

LIST OF EXHIBITS

Exhibit B – Scope of Services by AmaTerra Environmental, Inc.
Exhibit D-1 Estimated Man-Hour Breakdown



Task 1: Project Coordination Request, Archeological Background Study Report, and NEPA Text

- A) AmaTerra shall prepare a Non-Archeological Historic Resources Project Coordination Request (December 2013 version) for review and comment by TxDOT-ENV.
- B) AmaTerra will review the existing files held by the Texas Archeological Research Laboratory (TARL) and the Texas Historical Commission (THC) to determine if any previously recorded sites or archeological surveys occur within or near the proposed project area. The location of any previously recorded sites and surveys will be plotted onto USGS 7.5-minute topographic maps for use in the compliance coordination process. Archeologists will also consult the USDA NRCS soil survey maps for Hidalgo County, relevant aerial photography, historical maps, land use maps, and the Geologic Atlas of Texas in order to assess the likelihood for unrecorded archeological resources and make recommendations regarding the need for further field surveys. The results of this effort will be integrated into a background study report that conforms to TxDOT's *Standards of Uniformity (SOUs) for Archeological Background Studies* for review and comment by TxDOT-ENV.
- C) AmaTerra shall provide Client with language for the Cultural Resources section of the draft NEPA document.

Task 2: Historic Resources Research Design, Field Investigation, and Survey Report

- A) AmaTerra shall prepare a research design for review and comment by TxDOT-ENV. The research design shall conform to TxDOT *Documentation Standard for Historic Resources Research Design* (April 2014 version).
- B) AmaTerra shall perform a reconnaissance survey conforming to the methodology outlined in Appendix B of the *Draft CRM Guide for Accurately Identifying Non-Archeological Cultural Resources* (Texas Department of Transportation, April 2006). The survey shall document each historic-age resource (defined by TxDOT as a building, structure, object, historic district or non-archeological site at least 45 years old at the time of letting) within the Study Area. The Study Area shall consist of the Area of Potential Effects (APE) plus all parcels that are wholly or partially within the APE.
- C) AmaTerra shall provide a technical report detailing the results and findings of the reconnaissance survey including effects to historic properties and the need, if any, to conduct intensive survey efforts. The report shall have sufficient detail and clarity to provide THC with the basis for making determinations of National Register of Historic Places (NRHP) eligibility or shall have sufficient detail and clarity to make recommendations concerning the scope of the intensive survey. The report shall conform to the TxDOT *Documentation Standard for a Reconnaissance Survey Report* (April 2014 version).

**Cultural Resource Investigations
FM 2220 (Ware Road): From Mile 5 to FM 1925
Hidalgo County, Texas**

Task 3: Archeological Field Survey and Survey Report

Should an archeological survey be warranted, AmaTerra will develop an application for a Texas Antiquities Permit and submit it to TxDOT-ENV for review and processing. Upon issuance of the permit, AmaTerra will conduct a field survey. AmaTerra will deploy a team of archeologists to conduct a pedestrian survey including shovel testing and backhoe trenching along the entire length of the proposed APE. AmaTerra will follow the CTA guidelines as well as the THC standards for archaeological surveys. All artifacts recovered will be analyzed in the field and reburied; no artifacts will be collected. Sites (if any are discovered) will be delineated by digging additional manual shovel tests or backhoe trenches and their locations will be documented by sub-meter GPS. Sites will be recorded on State of Texas archeological data sheets, photographed and sketch mapped.

AmaTerra will prepare a professional report documenting the results of the fieldwork. The report will fully document all methods and results of the survey and will offer clear assessments of NRHP/SAL eligibility for all sites. The report will present explicit management recommendations for each site. The draft report will be presented in electronic format to L&G for review and comment and upon approval will be submitted in hard copy to TxDOT. Upon receipt of review comments, AmaTerra will prepare the final report and distribute these in compliance with the terms of the permit.

SCHEDULE

To be determined in consultation with Client.

ASSUMPTIONS AND CONDITIONS

1. The project is on existing location and is approximately 5 miles in length by 120 feet in width.
2. Client will provide one individual to assist AmaTerra with the historic resources field survey.
3. Rights of entry to private properties would be obtained by others prior to field investigations.
4. AmaTerra assumes one field mobilization to conduct the archeological survey. Repeated field visits necessitated by partial right of entry may be considered supplemental to the currently proposed scope.
5. This scope and cost estimate does not include archeological testing, mitigation, or data recovery.

COMPENSATION

AmaTerra will bill client monthly on a time and materials basis up to a maximum amount as detailed on the cost breakdown provided below.

REVISED EXHIBIT D-1
ESTIMATED MAN-HOUR BREAKDOWN

FM 2220 (WARE ROAD) PROJECT
from FM 676 (Mile 5) to FM 1925

	MANHOURS							TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Senior Environmental Scientist /Specialist	Project Engineer	Senior Engineer Tech	CADD Operator / GIS Analyst	Admin / Clerical			
CONTRACT RATE	218.04	180.66	152.63	133.94	93.45	68.53	62.30			
WORK AUTHORIZATION NO. 1										
PHASE I - EA, PUBLIC INVOLVEMENT, SCHEMATIC, HYDROLOGIC DESIGN										
1 Environmental Assessment with TxDOT	120		549	401.25		104	205	1379.25		\$ 183,800.72
2 Public involvement with stakeholders and 1 Public Meeting	120		167	163.25		107	12	569.25		\$ 81,600.03
3 Archeological and Historical Research (See Page 2 & 2 for Sub Cost)	36		87	47.25	14	15.5	24	223.75	\$ 33,678.00	\$ 31,322.63
4 Engineering Technical Support at Public Meetings with Layouts, etc.	40		60	60.25		61	22	243.25		\$ 31,500.22
5 Schematic for Roadway	220	210	81	801.25	830	659	81	2882.25		\$ 333,360.93
6 Schematic for 2 Outfalls	46	90	20	212	200	176.25	24	768.25		\$ 90,000.73
7 Hydrologic Map for 5 Miles - 2 Outfall Drain Ditches (outfall capacities etc.)	64	110	40	240	220	196	31	901		\$ 108,000.14
8 Schematic Design for 3-8x8 Siphon w/48" Steel Pipe Bypass	89	160	10	321.25	242	278.25	7.25	1107.75		\$ 135,000.73
9 Office Surveys for Schematic	40	20	13	101	82	89.5	5.75	351.25		\$ 42,001.49
10 Preliminary Compensable Utility Identification on Schematic	31	20	9	120.25	161	157.25	5.25	503.75		\$ 54,001.26
11 Update Schematic based on comments as provided by TxDOT/FHWA	4	8	5	79.25	52	162.25	5.25	315.75		\$ 30,000.80
12 Engineering Technical Support at Public Hearing with Layouts, etc.	40	40	102	66.25		65.25	2.25	315.75		\$ 45,001.54
13 Public Involvement for 1 Public Hearing	10	20	80	80		62	5	237		\$ 30,600.76
SUB-TOTAL	860	678	1223	2673.25	1801		429.76	9798.25	\$ 33,678.00	\$ 1,195,991.97

Sub-Total Manhours Fee with Subconsultant Fee: \$ 1,229,669.97

*** TOTAL PROJECT FEE WA#1: \$ 1,229,660.00**

*Rounded Fee

	MANHOURS							TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Senior Environmental Scientist /Specialist	Project Engineer	Senior Engineer Tech	CADD Operator / GIS Analyst	Admin / Clerical			
CONTRACT RATE	218.04	180.66	152.63	133.94	93.45	68.53	62.30			
SUPPLEMENTAL #1 TO WORK AUTHORIZATION NO. 1										
PHASE I - EA, SCHEMATIC, HYDROLOGIC DESIGN										
1 Environmental evaluation of proposed outfalls to include in original document			80			24	24	128		\$ 15,360.32
2 Engineering Technical Support at Public Meetings with Layouts, etc.	12		28	38		40	7	125		\$ 15,157.14
3 Schematic for J-08 Drain	19	35	10	85	105	65	12	331		\$ 38,391.36
4 Hydrologic Map for J-08 Drain	17	25	12	95	75	65	6	295		\$ 34,616.04
5 Office Surveys for Schematic	15	10	7	45	25	20	5	127		\$ 16,191.26
6 Preliminary Compensable Utility Identification on Schematic	13	5	6	25	55	35	5	144		\$ 15,851.90
8 Update Schematic based on comments as provided by TxDOT/FHWA	3	6	4	23	13	45	2	96		\$ 9,852.52
9 Preliminary ROW identification and spot elevations (See Page 2 of 2 for Sub Cost)								0	\$ 8,098.00	\$ -
SUB-TOTAL	79	81	147	311	273	294	61	1246	\$ 8,098.00	\$ 145,410.54

Supplemental #1 to WA#1 Sub-Total Manhours Fee with Subconsultant Fee: \$ 153,508.54

REVISED EXHIBIT D-1
ESTIMATED MAN-HOUR BREAKDOWN

FM 2220 (WARE ROAD) PROJECT
from FM 676 (Mile 5) to FM 1925

	MANHOURS								Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Senior Environmental Scientist /Specialist	Project Engineer	Senior Engineer Tech	CADD Operator / GIS Analyst	Admin / Clerical	TOTAL HOURS		
CONTRACT RATE	218.04	180.66	152.63	133.94	93.45	68.53	62.30			
SUPPLEMENTAL #2 TO WORK AUTHORIZATION NO. 1										
<i>PHASE I - Archeological and Historical Research</i>										
1 Archeological and Historical Research (See Page 2 & 2 for Sub Cost)									\$ 26,869.60	\$ -
SUB-TOTAL	0	0	0	0	0	0	0	0	\$ 26,869.60	\$ -

Supplemental #2 to WA#1 Sub-Total Manhours Fee with Subconsultant Fee:	\$ 26,869.60
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* TOTAL PROJECT FEE:	\$ 1,410,038.14
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*Rounded Fee

Cultural Resource Investigations
 FM 2220 (Ware Road): From Mile 5 to FM 1925
 Hidalgo County, Texas

EXHIBIT D-1

Schedule of Values	
FM2220 (Ware Road): From Mile 5 to FM1925; June 29, 2020	
TASK	
1: Historical and Archeological Project Coordination Request/Archeology Background Studies	\$ 5,249.00
2: Historic Resources Research Design, Reconnaissance Survey and Report	\$ 17,704.00
3: Archeological Survey and Report	\$ 37,595.00
TOTAL	\$ 60,548.00

Cost Breakdown: Task 1 PCR and Background Studies								
LABOR	Historical PCR	Archeological Background Studies		Admin	Total	Units	Unit Price	Cost
Principal				2	2	hrs	\$ 232.00	\$ 464.00
Archeologist VI		2			2	hrs	\$ 136.00	\$ 272.00
Archeologist V		8			8		\$ 101.00	\$ 808.00
Archeologist IV		4			4	hrs	\$ 91.00	\$ 364.00
Historical Architect	2				2	hrs	\$ 137.00	\$ 274.00
Architectural Historian	12				12	hrs	\$ 118.00	\$ 1,416.00
Historian II	2				2	hrs	\$ 89.00	\$ 178.00
GIS Specialist	4	4			8	hrs	\$ 109.00	\$ 872.00
Administrative Asst				6	6	hrs	\$ 88.00	\$ 528.00
TOTAL LABOR								\$ 5,176.00
EXPENSES	Historical PCR	Archeological Background		Admin	Total	Units	Unit Price	Cost
Copies, b/w	10	50		20	80	each	\$ 0.10	\$ 8.00
Copies, color		25		40	65	each	\$ 1.00	\$ 65.00
TOTAL EXPENSES								\$ 73.00
TOTAL TASK 1								\$ 5,249.00

Cost Breakdown: Task 2 Historic Resources								
LABOR	Research Design	Field Survey	Survey Report	Admin	Total	Units	Unit Price	Cost
Historical Architect	4	2	4	2	12	hour	\$ 137.00	\$ 1,644.00
Architectural Historian	24	24	40		88	hour	\$ 118.00	\$ 10,384.00
Historian II	8	0	32		40	hrs	\$ 89.00	\$ 3,560.00
GIS Specialist	3	1	8		12	hour	\$ 109.00	\$ 1,308.00
TOTAL LABOR								\$ 16,896.00
EXPENSES	Research Design	Field Survey	Survey Report	Admin	Total	Units	Unit Price	Cost
Air fare					0	r/t	\$ 400.00	\$ -
Rental car		3			3	day	\$ 70.00	\$ 210.00
Fuel for rental car		20			20	gallon	\$ 3.75	\$ 75.00
Lodging and taxes		2			2	night	\$ 90.00	\$ 180.00
Meal Allowance		3			3	day	\$ 46.00	\$ 138.00
Copies, b/w	25	25	300		350	each	\$ 0.10	\$ 35.00
Copies, color	20		150		170	each	\$ 1.00	\$ 170.00
TOTAL EXPENSES								\$ 808.00
TOTAL TASK 2								\$ 17,704.00

Cultural Resource Investigations
 FM 2220 (Ware Road): From Mile 5 to FM 1925
 Hidalgo County, Texas

EXHIBIT D-1

Cost Breakdown: Task 3 Archeology Resources								
LABOR	Permit Application	Field Survey	Draft Report	Final Report	Total	Units	Unit Price	Cost
Principal				2	2	hour	\$ 216.00	\$ 432.00
Archeologist VI	2		4		6	hour	\$ 137.00	\$ 822.00
Archeologist V	8	40	40	24	112	hour	\$ 101.00	\$ 11,312.00
Archeologist IV		40	40	24	104	hour	\$ 91.00	\$ 9,464.00
Archeologist III		80			80	hour	\$ 86.00	\$ 6,880.00
GIS Specialist	4		12	2	18	hour	\$ 107.00	\$ 1,926.00
Administrative Asst			4	4	8	hour	\$ 88.00	\$ 704.00
TOTAL LABOR								\$ 31,540.00
EXPENSES	Permit Application	Field Survey	Draft Report	Final Report	Total	Units	Unit Price	Cost
Lodging and taxes		16			16	night	\$ 90.00	\$ 1,440.00
Meal Allowance		20			20	day	\$ 46.00	\$ 920.00
Mileage		840			840	mile	\$ 0.565	\$ 474.60
CAS Curation				2	2	Drawer	\$ 250.00	\$ 500.00
Backhoe Rental		2			2	Day	\$ 1,200.00	\$ 2,400.00
Copies, b/w	50	50	300	300	700	each	\$0.10	\$ 70.00
Copies, color	25	25	100	100	250	each	\$ 1.00	\$ 250.00
TOTAL EXPENSES								\$ 6,054.60
TOTAL TASK 3								\$ 37,595.00
CSJ: 2094-01-063 Section I (FM 1925 to SH 107) 2.9 miles							\$	32,695.92
CSJ: 2094-01-062 Section II (SH 107 to Mile 5 Rd) 2.5 miles							\$	27,852.08
							\$	60,548.00

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:
 2020-652752

Date Filed:
 08/04/2020

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.
 Hidalgo County Precinct No. 4

Date Acknowledged:
 08/05/2020

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-15-136-06-02
 Ware Road (FM 2220) (from FM 676 (Mile 5) to FM 1925)

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

5 Check only if there is NO Interested Party.

6 UNSWORN DECLARATION

My name is _____, and my date of birth is _____.

My address is _____ (street), _____ (city), _____ (state), _____ (zip code), _____ (country).

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

Executed in _____ County, State of _____, on the _____ day of _____, 20____.
 (month) (year)

 Signature of authorized agent of contracting business entity
 (Declarant)

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**

Certificate Number:
2020-652752

Date Filed:
08/04/2020

Date Acknowledged:

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

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

Hidalgo County Precinct No. 4

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-15-136-06-02
Ware Road (FM 2220) (from FM 676 (Mile 5) to FM 1925)

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

5 Check only if there is NO Interested Party.

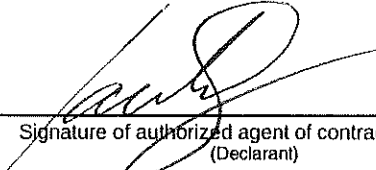
6 UNSWORN DECLARATION

My name is Jacinto Garza, and my date of birth is 10/23/1961.

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 County, on the 4th day of August, 20 20.
(month) (year)



Signature of authorized agent of contracting business entity
(Declarant)