

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Agreement # C-15-320-10-13**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 1**

**THIS WORK AUTHORIZATION** is made pursuant to the terms and conditions of Article 7 of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **LeFevre Engineering & Management Consulting, Inc.**, professional engineers of **McAllen, Texas**, hereinafter called "**Engineer**".

**PART 1. SCOPE OF WORK**

The purpose of this Work Authorization is for the **Engineer** to provide Surveying, Plans, Specifications, Construction Phase Engineering and Construction Inspection for Goolie Road Street & Drainage Improvements of Hidalgo County Precinct **No.1** as identified in Exhibit "A" and Exhibit "B".

The scope of services to be provided by the **Owner** is identified in ***EXHIBIT "A" – Scope of Services to be Provided by the Owner*** attached hereto.

The scope of services to be provided by the **Engineer** is identified in ***EXHIBIT "B" – Scope of Services to be Provided by the Engineer*** attached hereto.

**PART 2. ESTIMATED COST**

The estimated cost for services under this Work Authorization is **\$ 218,505.00.** This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D"**.

**PART 3. PAYMENT**

Compensation and payment to the **Engineer** for the services established under this Work Authorization shall be made in accordance with **Articles 5, 6, & 7** of the Agreement.

**PART 4. FUNDING**

This Work Authorization No. **1** shall be funded through funding source:

Account No. \_\_\_\_\_  
\_\_\_\_\_

Requisition Number \_\_\_\_\_ (MUST BE INCLUDED AFTER CC APPROVAL)

**PART 5. PERIOD OF SERVICE**

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate **upon completion of scopes of the work authorization.**

**PART 6. RESPONSIBILITIES AND OBLIGATIONS**

This Authorization does not waive the parties' responsibilities and obligations provided under the Agreement.

**PART 7. ACKNOWLEDGEMENT AND CONFIRMATION**

Acknowledgement and confirmation by **Hidalgo County Precinct No. 1** Commissioner **A.C. Cuellar, Jr.** as to content and detail of this **Work Authorization No. 1.**

**HIDALGO COUNTY  
COMMISSIONER PRECINCT No. 1**

**BY:** \_\_\_\_\_

**Commissioner A.C. Cuellar, Jr.**

**PART 8. ACCEPTANCE AND APPROVAL**

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on \_\_\_\_\_ as indicated below and effective as of \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

**THE ENGINEER:**  
**Le Fevre Engineering & Management  
Consulting, Inc.**

**THE OWNER:**  
**HIDALGO COUNTY**

\_\_\_\_\_  
By: Richard LeFevre, P.E., Project Eng.

\_\_\_\_\_  
By: Ramon Garcia, County Judge

ATTEST:

**BY:** \_\_\_\_\_

**Arturo Guajardo, Jr., County Clerk**

**LIST OF ATTACHMENTS**

ATTACHMENT "A" - Service to be provided by the Owner  
ATTACHMENT "B" - Services to be provided by the Engineer  
ATTACHMENT "C" - Work Schedule  
ATTACHMENT "D" - Estimated Cost Proposal  
D-1 Fee Breakdown

# EXHIBIT "A"

## Services to be provided by the OWNER

The following provides an outline of the services to be provided by the **OWNER** in the development of the Project.

The **OWNER** will provide to the **ENGINEER** the following:

- (1) Authorization to the **ENGINEER** to begin work in accordance with Section 3 of this Agreement.
- (2) Payment for work performed by the **ENGINEER** and accepted by the **OWNER** in accordance with Section 6 of the Agreement.
- (3) Assistance to the **ENGINEER**, as necessary, to obtain the required data and information from other local, regional, State and Federal agencies that the **ENGINEER** cannot easily obtain.
- (4) Provide any available relevant data the **OWNER** may have on file concerning the project.
- (5) Provide timely review and decisions in response to the **ENGINEER'S** request for information and/or required submittals and deliverables, in order for the **ENGINEER** to maintain the agreed-upon work schedule prepared in accordance with Exhibit "C" of this Agreement.
- (6) Attend and participate in progress meetings as required and as coordinated and conducted by the **ENGINEER**.
- (7) Assist the **ENGINEER** in the preparation of the project mailing list; provide representation, a site and stenographer for all public meetings; additionally:

### *Public Meetings*

- (a) Approve agenda and all exhibits prior to public meeting.
  - (b) Approve date and location of the meeting.
  - (c) Review/approve Public Meeting Report.
- (8) Attend the Preliminary Concept Conference coordinated and conducted by the **ENGINEER** and more particularly identified in Attachment "B" of the

Agreement.

- (9) Assist the ENGINEER as required in the coordination with the USACE and the Federal Emergency Management Agency (FEMA) and any other coordinating agency or entity.
- (10) Review and approve the Project design criteria.
- (11) Review and approve change orders as required and prepared by the ENGINEER.

# EXHIBIT B

## Scope of Services to be provided by the Engineer Goolie Road & Drainage Improvements

PREPARED BY:

**LeFEVRE ENGINEERING & MANAGEMENT CONSULTING, LLC.  
(LEMC)**

The County of Hidalgo, Texas, proposes to reconstruct Goolie Road (Approximately 16,000 LF) and improve the drainage.

**Contract Amount: \$218,505.00**

### **Task 1 – Survey**

Necessary field information will be developed by field surveys. Record plans will be issued as a guide for the survey work and for the analysis of design alternatives.

### **Task 2 – Project Orientation and Startup**

LEMC proposes an initial project orientation meeting be scheduled so that both the County and the engineer may have a clear understanding of the design and construction process, parameters to be used and the final product desired.

### **Task 3 – Design**

LEMC will assure that improvements are designed and incorporated in the plans are adequate for the area, Hidalgo County requirements.

### **Task 4 – Preliminary Plans and Estimates**

LEMC will provide County staff a set of plans and estimates for accordance, evaluation and coordination.

### **Task 5 – Final Plans and Specifications**

Final plans, specifications and estimates will be prepared during this task. The output of this task will be the documents necessary for bidding and constructing the project.

### **Task 6 – Bidding and Award**

A pre-bid meeting will be scheduled if necessary in order to brief potential bidders and suppliers on the project. Necessary clarifications or addendum will be issued. LEMC will attend the bid opening and assist as the County desires.

### **Task 7 – Construction**

LEMC will periodically observe ongoing work, identify survey control for the contractor

(Construction Staking not included) and assist the County with certifying periodic payment requests. Upon completion by the contractor, a final inspection will be scheduled with the contractor and County staff. The outcome of these final inspections will be a Certificate of completion or a punch list of items for the contractor to complete, prior to issuance of a Certificate of Completion. Will provide daily inspector services and reports to County and Engineer.

COUNTY OF HIDALGO - PRECINCT NO. 1  
GOOLIE ROAD RECONSTRUCTION  
PROJECT EXHIBIT C - Work Schedule

ID	Task Name	Duration	Start	Finish	March	May	July	September	November	December
					3/13 4/10	5/8 6/5	7/3 7/31	8/28 9/25	10/23 11/20	12/18
1	<b>Project Start Up</b>	<b>1 day</b>	<b>Wed 4/6/16</b>	<b>Wed 4/6/16</b>	◆					
2	Define Scope of Work and Tasks	1 day	Wed 4/6/16	Wed 4/6/16	↳					
3										
4	<b>Survey</b>	<b>15 days</b>	<b>Thu 4/7/16</b>	<b>Wed 4/27/16</b>	■					
5	Design Topography	15 days	Thu 4/7/16	Wed 4/27/16	■					
6										
7	<b>Preliminary Plans (30% Submittal)</b>	<b>16 days</b>	<b>Thu 4/28/16</b>	<b>Thu 5/19/16</b>	■					
8	Develop Alternatives	2 days	Thu 4/28/16	Fri 4/29/16	↳					
9	Preliminary Plans and Specifications	16 days	Thu 4/28/16	Thu 5/19/16	■					
10										
11	<b>60-90% Submittal of Plans and Specifications</b>	<b>8 days</b>	<b>Fri 5/20/16</b>	<b>Tue 5/31/16</b>	◆					
12	Plans and Specifications	8 days	Fri 5/20/16	Tue 5/31/16	■					
13										
14	<b>100% Submittal</b>	<b>148 days</b>	<b>Wed 6/1/16</b>	<b>Fri 12/23/16</b>	■					
15	Final Plans & Specifications	10 days	Wed 6/1/16	Tue 6/14/16	■					
16										
17	Construction	120 days	Mon 7/11/16	Fri 12/23/16						

Date: Thu 3/31/16	Task		Inactive Milestone		Finish-only	
	Split		Inactive Summary		External Tasks	
	Milestone		Manual Task		External Milestone	
	Summary		Duration-only		Progress	
	Project Summary		Manual Summary Rollup		Split	
	External Tasks		Manual Summary			
	External MileTask		Start-only			



Exhibit "D"  
Cost Proposal  
Work Authorization No. 1  
Goolie Road and Drainage Improvements

PREPARED BY:  
**LeFEVRE ENGINEERING & MANAGEMENT CONSULTING, LLC.  
(LEMC)**

The County of Hidalgo, Texas, proposes to reconstruct Goolie Road (Approximately 16,000 LF of Street) and improve the drainage along the road.

**Contract Amount: \$218,505.00**

Engineering Cost Proposal and Fee Breakdown

Original Scope:

Basic Engineering	\$120,065.00
Topographic Survey	\$25,200.00
Construction Phase	
Engineering	\$37,990.00
Inspection	\$35,250.00
<b>Total</b>	<b>\$218,505.00</b>

\*Construction Material Testing,  
Geotechnical Engineering to be  
provided by others

HOURLY FEES

PRINCIPAL	\$200.00/HOUR
PROJECT ENGINEER	\$175.00/HOUR
PROJECT MANAGER	\$130.00/HOUR
DESIGNER/TECHNICIAN	\$ 85.00/HOUR
ADMINISTRATIVE	\$ 65.00/HOUR
INSPECTOR/PROJECT REPRESENTATIVE	\$ 75.00/HOUR

\*Reimbursables, Materials, and Travel are incorporated into hourly fees for individuals and will not be requested for this project.



ENVIRONMENTAL &  
MANAGEMENT CONSULTING, LLC

Texas Registered Engineering Firm F-11722

612 Nolana, Suite 520  
McAllen, Texas 78504  
Tel. 956.661.8000  
Fax. 956.661.8001

## Professional Engineering Cost Breakdown

Goolie Road (Mile 9 - Minnesota)

EXHIBIT D-1

### LEMC Professional Engineering Services:

Civil Engineering			
Hourly Rates:			
Principal Engineer	200	\$/Hr	
Engineer	175	\$/Hr	
Project Manager	165	\$/Hr	
CADD Technician	85	\$/Hr	
Inspector	75	\$/Hr	
Administration	85	\$/Hr	

Project Start Up (Task 2)	\$200/Hr Principal Engineer	\$165/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	N/A Other
Meeting w/ County & Staff	3	3	3			
Planning w/ County Staff		6	6			
Define Scope of Work & Tasks		6	6			
<b>Total</b>	<b>3</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>

Preliminary Plans (Task 4)	\$200/Hr Principal Engineer	\$165/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	N/A Other
Develop Feasible Alternatives		6	12			
Develop Preferred Alternative		6	12			
Prepare Environmental Clearance (if any)						
Preliminary Design Calculations		3	3			
Preliminary Plans and General Notes		1	12	36	12	
Preliminary Specifications		0	12		40	
<b>Total</b>	<b>0</b>	<b>16</b>	<b>51</b>	<b>36</b>	<b>52</b>	<b>0</b>

Design - Civil, Electrical, Structural Task 3	\$200/Hr Principal Engineer	\$165/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	N/A Other
Survey Coordination and Evaluation		12	32	120	24	
Final Design Calculations	4	24	40			
Final Plan and General Notes	4	24	40	240	26	
Final Specifications	4	24	40		26	
<b>Design</b>	<b>12</b>	<b>84</b>	<b>152</b>	<b>360</b>	<b>76</b>	<b>0</b>

<b>Final Plans and Specifications</b>	<b>\$200/Hr</b>	<b>\$165/Hr</b>	<b>\$175/Hr</b>	<b>\$85/Hr</b>	<b>\$65/Hr</b>	<b>N/A</b>
<b>Task 5</b>	<b>Principal Engineer</b>	<b>Project Manager</b>	<b>Project Engineer</b>	<b>CADD Technician</b>	<b>Clerk</b>	<b>Other</b>
Final Plan and General Notes	2	12	24	32	0	
Final Specifications	2	12	24		32	
<b>Design</b>	<b>4</b>	<b>24</b>	<b>48</b>	<b>32</b>	<b>32</b>	<b>0</b>

<b>Inspection</b>	<b>\$200/Hr</b>	<b>\$165/Hr</b>	<b>\$175/Hr</b>	<b>\$85/Hr</b>	<b>\$65/Hr</b>	<b>75</b>
	<b>Principal Engineer</b>	<b>Project Manager</b>	<b>Project Engineer</b>	<b>CADD Technician</b>	<b>Clerk</b>	<b>Inspector</b>
Pre-Bid Meeting						4
Bid Opening						4
Construction Inspections						460
Pre-Construction Meeting & N.T.P.						2
<b>Bidding and Negotiating Phase Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>470</b>

<b>Total Project Inspection</b>	<b>\$35,250</b>
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<b>Construction Phase Engineering</b>	<b>\$200/Hr</b>	<b>\$165/Hr</b>	<b>\$175/Hr</b>	<b>\$85/Hr</b>	<b>\$65/Hr</b>	<b>N/A</b>
<b>Bidding &amp; Award (Task 6)</b>	<b>Principal Engineer</b>	<b>Project Manager</b>	<b>Project Engineer</b>	<b>CADD Technician</b>	<b>Clerk</b>	<b>Other</b>
Advertisement					15	
Pre-Bid Meeting			9		15	
Bid Opening	0		0		8	
Negotiations w/ Contractor			9			
Notice of Award to Contractor			9		15	
Pre-Construction Meeting & N.T.P.	2		16		3	
<b>Total</b>	<b>2</b>	<b>0</b>	<b>43</b>	<b>0</b>	<b>56</b>	<b>0</b>

<b>Construction (Task 7)</b>	<b>\$200/Hr</b>	<b>\$165/Hr</b>	<b>\$175/Hr</b>	<b>\$85/Hr</b>	<b>\$65/Hr</b>	<b>Inspector</b>
	<b>Principal Engineer</b>	<b>Project Manager</b>	<b>Project Engineer</b>	<b>CADD Technician</b>	<b>Clerk</b>	
Construction Phase Engineering	2	10	15		16	
Monthly Project Status Meetings	2	12	15		16	
Construction Inspections	0	0	15		16	
<b>Construction Phase Total</b>	<b>4</b>	<b>22</b>	<b>45</b>	<b>0</b>	<b>48</b>	<b>0</b>

<b>As Builts (Task 8)</b>	<b>\$200/Hr</b>	<b>\$165/Hr</b>	<b>\$175/Hr</b>	<b>\$85/Hr</b>	<b>\$65/Hr</b>	<b>N/A</b>
	<b>Principal Engineer</b>	<b>Project Manager</b>	<b>Project Engineer</b>	<b>CADD Technician</b>	<b>Clerk</b>	<b>Other</b>
Record Drawings			12	80		
Closing of the Project			12			
<b>Total</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>80</b>	<b>0</b>	

<b>Total Hours</b>	<b>19</b>	<b>139</b>	<b>266</b>	<b>428</b>	<b>160</b>	<b>0</b>
<b>Project Start Up - Phase II</b>	<b>3</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>

Design - Phase II	12	84	152	360	76	0
Preliminary Plans - Phase II	0	16	51	36	52	0
Final Plans and Specs - Phase II	4	24	48	32	32	0
Amount Per Hour	\$200	\$165	\$175	\$85	\$65	40
<b>Grand Total</b>	<b>\$3,800</b>	<b>\$22,935</b>	<b>\$46,550</b>	<b>\$36,380</b>	<b>\$10,400</b>	<b>\$0</b>

**CONTRACT TOTAL AMOUNT** **\$120,065**

Total Hours	6	22	112	80	104	0
Bidding & Award (Task 6)	2	0	43	0	56	0
Construction (Task 7)	4	22	45	0	48	0
AS-Builts (Task )	0	0	24	80	0	0
Amount Per Hour	\$200	\$165	\$175	\$85	\$65	40
<b>Grand Total</b>	<b>\$1,200</b>	<b>\$3,630</b>	<b>\$19,600</b>	<b>\$6,800</b>	<b>\$6,760</b>	<b>\$0</b>

**Total Construction Phase** **\$37,990**

Survey	\$	25,200.00
Design	\$	120,065.00
Inspection		\$35,250
Construction Phase Engineering		\$37,990
<b>Total Contract</b>	<b>\$</b>	<b>218,505.00</b>