

# EXHIBIT "E"

## HIDALGO COUNTY Professional Engineering Services Agreement # C-14-308-09-09 Work Authorization Form

### WORK AUTHORIZATION NO. 2

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 and Specifications for Palm Street Improvements located in Heidelberg Subdivision of Hidalgo County Precinct No. 1 as identified in Attachment "A".

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 \$ 17,115.94. 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. 2 shall be funded through funding source:  
Account No. \_\_\_\_\_

Requisition Number 270697 (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. 2.

**HIDALGO COUNTY  
COMMISSIONER PRECINCT No. 1**

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

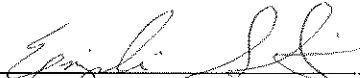
Commissioner A.C. Cuellar, Jr.

**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: Emigdio Salinas, 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.
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- (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.
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## **EXHIBIT B**

### **-Scope of Services to be provided by the Engineer**

PREPARED BY:

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

The County of Hidalgo, Texas, proposes to reconstruct Palm Street located in Heidelberg Subdivision (Approximately 2,614 LF) at a width of 20-ft.

**Contract Amount: \$17,115.94**

#### **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.

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#### **Task 3 – Design**

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

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Exhibit "C"  
Project Schedule  
Work Authorization No. 2  
Palm Street Improvements

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

The County of Hidalgo, Texas, proposes to reconstruct Palm Street located in Heidelberg Subdivision (Approximately 2,614 LF) at width of 20-ft.

Attached Schedule:

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

ID	Task Name	Start	Duration	of	January	March	May	July	S
				Summary	S	S	S	S	S
1	Project Start Up	Mon 2/27/15	7 days						
2	Define Scope of Work and Tasks	Mon 2/27/15	7 days						
3									
4	Survey	Wed 2/11/15	25 days						
5	Design Topography	Wed 2/11/15	25 days						
6									
7	Preliminary Plans (30% Submittal)	Wed 3/18/15	30 days						
8	Develop Alternatives	Wed 3/18/15	20 days						
9	Design Calculations	Wed 3/18/15	30 days						
10	Preliminary Plans and Specifications	Wed 3/18/15	30 days						
11									
12	60-80% Submittal of Plans and Specifications	Wed 4/29/15	30 days						
13	Plans and Specifications	Wed 4/29/15	30 days						
14									
15	100% Submittal	Wed 6/10/15	30 days						
16	Final Plans & Specifications	Wed 6/10/15	30 days						

Date: Fri 1/22/15

Task Split

Progress Milestone

Summary Project Summary

External Tasks External Mile Task

Split



Exhibit "D"  
Cost Proposal  
Work Authorization No. 2  
Palms Street Improvements

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

The County of Hidalgo, Texas, proposes to reconstruct Palm Street located in Heidelberg Subdivision (Approximately 2,614 LF) at a width of 20-ft.

**Contract Amount: \$17,115.94**

Engineering Cost Proposal and Fee Breakdown

Original Scope:

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Basic Engineering	\$13,221.41
Topographic Survey	\$3,894.53
<b>Total</b>	<b>\$17,115.94</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.

**Engineer's Opinion of Probable Cost - Exhibit D**

**Colonia Name** Heidelberg  
**Street Name** Pending Linear Footage from BCAP Project (Palm St.)  
**Length of proposed roadway** 2,614 FT  
**Proposed Roadway Trave Lane 10 min and one 1 curb off set min** Existing 50-ft of ROW 2-10 Lanes proposed  
**# of Parcels to be acquired** 0  
**Estimated Cost of Land to be acquired**

Item #	Description	Est. Qty.		Unit Price	Total
<b>General Project</b>					
1	Traffic Control Plan signed and sealed by a professional engineer licensed in Texas	1	LS	Paid by TxDot	\$0.00
2	Installation and maintenance of barricades, signs and traffic handling as per contractor Traffic Control Plan.	1	LS	Paid by TxDot	\$0.00
<b>TOTAL GENERAL PROJECT</b>					<b>\$0.00</b>
<b>Pavement Improvements</b>					
1	Place New 2' Hot Mix Asphalt Concrete (Type "D") [1 1/2" Compacted thickness] over entire section (20-ft width) according to the plans and specifications; complete in place.	5809	SY	\$13.20	\$76,678.80
2	Prime Coat (MC-30) (0.2 GAL/SY) according to the plans and specifications; complete in place.	1162	GAL	\$6.00	\$6,970.80
3	8-inch Scarify Existing Caliche Base and Asphalt and stabilize the salvaged material and additional caliche with lime (3%); re-compact salvaged and additional for flex-base, according to the plans and specifications complete in place	6390	SY	\$6.00	\$38,340.00
4	8-Inch Scarify, Lime Stabilize (3%) and compact Sub-Grade according to the plans and specifications complete in place	6390	SY	\$3.50	\$22,365.00
5	Sawcut, Remove Existing Driveway, regrade if necessary and construct new 6-inch residential concrete (3500psi) w/compacted sub-grade, according to the plans and specifications; complete in place	4	EA	\$1,500.00	\$6,000.00
6	Sawcut, Remove Existing Driveway, regrade and construct new 2-inch Hot Mix Asphalt Concrete (Type "D") [2" compacted thickness] w/compacted base, according to the plans and specifications; complete in place	20	EA	\$500.00	\$10,000.00
7	Re-Grading of Existing Bar Ditch (coordination with Hidalgo County Precinct No. 1 Staff for removal of excessive trash on right-of-way to be included on this bid item), according to the plans and specifications; complete in place.	1	LS	\$7,500.00	\$7,500.00
8	Furnish and install 15-inch HDPE pipe at each driveway; according to the plans and specifications; complete in place	360	LF	\$35.00	\$12,600.00
<b>TOTAL PAVEMENT IMPROVEMENTS</b>					<b>\$180,454.60</b>
<b>Pavement Improvements</b>					

Total Improvements: \$180,454.60

Basic Engineering Services \$13,221.41

Survey Topography for Design \$3,894.53

**Grand Total \$197,570.54**

**LeFEVRE**  
 ENGINEERING &  
 MANAGEMENT CONSULTING, LLC  
 Texas Registered Engineering Firm F-11722  
612 Nolana, Suite 520  
 McAllen, Texas 78504  
 Tel. 361 661 8000  
 Fax. 361 661 8001



Texas Registered Engineering Firm F-11722

612, Neiers, Suite 520  
 Mecklen, Texas 76204  
 Tel: 956.687.5346  
 Fax: 956.687.5363

Hidalgo County Precinct No. 1 - BCAP Heidelberg Subdivision Street Improvements  
 P161

**LEMC Professional Engineering Services:**

**Civil Engineering**

Hourly Rates:

Principal Engineer	200	\$/Hr
Engineer	175	\$/Hr
Project Manager	130	\$/Hr
CADD Technician	85	\$/Hr
Inspector	75	\$/Hr
Administration	65	\$/Hr

**Project Start Up (Task 2)**

	\$200/Hr Principal Engineer	\$130/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	\$75/Hr Inspector
Meeting w/ County Staff		1	1			
Planning w/ County Staff		1	1			
Define Scope of Work & Tasks		1	1			
<b>Total</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Preliminary Plans (Task 4)**

	\$200/Hr Principal Engineer	\$130/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	\$75/Hr Inspector
Develop Feasible Alternatives		1	1			
Develop Preferred Alternative		1	1			
Prepare Environmental Clearance (if any)						
Preliminary Design Calculations		1	2			
Preliminary Plans and General Notes		1	2	16	4	
Preliminary Specifications		1	2		4	
<b>Total</b>	<b>0</b>	<b>5</b>	<b>8</b>	<b>16</b>	<b>8</b>	<b>0</b>

**Design - Civil**

**Task 3**

	\$200/Hr Principal Engineer	\$130/Hr Project Manager	\$175/Hr Project Engineer	\$85/Hr CADD Technician	\$65/Hr Clerk	\$75/Hr Inspector
Survey Coordination and Evaluation		2	2	6	2	
Final Design Calculations		2	4			
Final Plan and General Notes	2	2	4	8	2	

Final Specifications	2	2	4	2	2	0
<b>Design</b>	<b>4</b>	<b>8</b>	<b>14</b>	<b>14</b>	<b>6</b>	<b>0</b>
<b>Final Plans and Specifications</b>	<b>\$200/Hr</b>	<b>\$130/Hr</b>	<b>\$175/Hr</b>	<b>\$85/Hr</b>	<b>\$65/Hr</b>	<b>\$75/Hr</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>Inspector</b>
Final Plan and General Notes	1	2	2	8		
Final Specifications	1	2	2		3	
<b>Design</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>3</b>	<b>0</b>
Total Hours	6	20	29	38	17	0
Amount Per Hour	\$200	\$130	\$175	\$85	\$65	\$75
<b>Grand Total</b>	<b>\$1,200</b>	<b>\$2,600</b>	<b>\$5,075</b>	<b>\$3,230</b>	<b>\$1,116</b>	<b>\$0</b>
<b>Total Amount</b>	<b>\$13,221.41</b>					
<b>Survey</b>	<b>\$1500/Day</b>	<b>\$90/Hr</b>	<b>\$120/Hr</b>	<b>\$65/Hr</b>	<b>\$30/Hr</b>	<b>N/A</b>
Field Work - Survey	Survey Team	Project Manager	Project Engineer	CADD Technician	Clerk	Other
CADD/Technician	2			16		
Project Manager Oversight		2				
Final Suvey		2			9	
<b>Sub-Total</b>	<b>\$ 3,000</b>	<b>\$ 360</b>	<b>\$ -</b>	<b>\$ 256</b>	<b>\$ 279</b>	<b>\$ -</b>
<b>Total Amount</b>	<b>\$3,894.53</b>					

**CONTRACT TOTAL AMOUNT \$17,115.94**