

# EXHIBIT "E"

## HIDALGO COUNTY Professional Engineering Services Agreement # C-14-308-09-09 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 Spanish Palms Subdivision Street & Drainage Improvements 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 \$ 57,365.00. 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. 5-1345-431-00-121-194-0-721

Requisition Number 270662 (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: \_\_\_\_\_

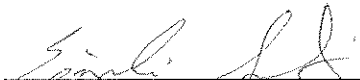
**Commissioner A.C. Cuellar, Jr.**

**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: 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 Spanish Palm Subdivision Street: Spanish Palms Drive (Approximately 2,350 LF) and improve the drainage.

**Contract Amount: \$57,365.00**

#### **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.

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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.

#### **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. 1  
Spanish Palms Subdivision Street and Drainage Improvements  
PREPARED BY:  
**LeFEVRE ENGINEERING & MANAGEMENT CONSULTING, LLC.**  
**(LEMC)**

The County of Hidalgo, Texas, proposes to reconstruct Spanish Palms Subdivision Street: Spanish Palms Drive (Approximately 2,350 LF of Street) and improve the drainage.

Attached Schedule:



Exhibit "D"  
 Cost Proposal  
 Work Authorization No. 1  
 Spanish Palms Subdivision Street and Drainage Improvements  
 PREPARED BY:  
**LeFEVRE ENGINEERING & MANAGEMENT CONSULTING, LLC.**  
**(LEMC)**

The County of Hidalgo, Texas, proposes to reconstruct Spanish Palms Subdivision Street: Spanish Palms Drive (Approximately 2,350 LF of Street) and improve the drainage.

**Contract Amount: \$57,365.00**

Engineering Cost Proposal and Fee Breakdown

Original Scope:

|                    |                    |
|--------------------|--------------------|
| Basic Engineering  | \$31,465.00        |
| Topographic Survey | \$9,250.00         |
| Construction Phase |                    |
| Engineering        | \$7,400.00         |
| Inspection         | \$9,250.00         |
|                    |                    |
| <b>Total</b>       | <b>\$57,365.00</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.

LeFevre Engineering & Management Consulting, LLC  
Hidalgo County Precinct No. 1 - Spanish Palm Subdivision  
Engineer's Opinion of Probable Construction Cost

| Item #                       | Description  | Bid Qty. |     | Bid Unit Price | Total        |
|------------------------------|--|----------|-----|----------------|--------------|
| <b>General Project</b>       |  |          |     |                |              |
| 1                            | Installation and maintenance of barricades, signs and traffic handling as per contractor Traffic Control Plan.   | 1        | LS  | \$ 10,000.00   | \$10,000.00  |
| 2                            | Installation and maintenance of Erosion Control Measures; according to the plans and specifications; complete in place   | 1        | LS  | \$ 10,000.00   | \$10,000.00  |
| TOTAL GENERAL PROJECT        |  |          |     |                | \$20,000.00  |
| <b>Pavement Improvements</b> |  |          |     |                |              |
| 1                            | Remove existing concrete 18" LayDown Curb and dispose offsite  | 5280     | LF  | \$5.00         | \$26,400.00  |
| 2                            | Place New 1-1/2" Hot Mix Asphalt Concrete (Type "D") [1-1/2" Compacted thickness], according to the plans and specifications; complete in place.   | 7135     | SY  | \$12.00        | \$85,620.00  |
| 3                            | Prime Coat (MC-30) (0.2 GAL/SY) according to the plans and specifications; complete in place.  | 1427     | GAL | \$6.00         | \$8,562.00   |
| 4                            | 8-Inch Scarify Existing Caliche Base and Asphalt and stabilize the salvaged material with lime (3%); re-compact salvaged material for flex-base (8-inch compacted thickness) to a width of 28-ft (additional caliche needed to achieve 28-ft width does not require lime stabilization (additional caliche required to be included on this bid item) according to the plans and specifications complete in place | 8325     | SY  | \$8.00         | \$66,600.00  |
| 5                            | 8-inch Scarify and compact Sub-Grade to a width of 28-ft according to the plans and specifications complete in place   | 8325     | SY  | \$2.50         | \$20,812.50  |
| 6                            | 7-inch Reinforced Concrete Apron (4000 PSI), according to the plans and specification; complete in place.  | 250      | SY  | \$70.00        | \$17,500.00  |
| 7                            | 4-inch Reinforced Concrete Driveway (4000 PSI), according to the plans and specification; complete in place  | 500      | SY  | \$45.00        | \$22,500.00  |
| 8                            | 4-inch Concrete Sidewalk (4000 PSI), according to the plans and specification; complete in place   | 195      | SF  | \$5.00         | \$975.00     |
| 9                            | Place New 1-1/2" Hot Mix Asphalt Concrete (Type "D") Driveways [1-1/2" Compacted thickness], according to the plans and specifications; complete in place.   | 470      | SY  | \$15.00        | \$7,050.00   |
| TOTAL Pavement Improvements  |  |          |     |                | \$256,019.50 |
| <b>Drainage Improvements</b> |  |          |     |                |              |
| 1                            | Earthwork: Grade roadside swales   | 2380     | CY  | \$ 7.00        | \$16,660.00  |
| 2                            | Connect to Existing Grate Inlet (Grate Inlet by others), according to the plans and specifications; complete in place  | 2        | EA  | \$ 2,500.00    | \$5,000.00   |
| 3                            | Furnish and Install 18-inch Sloped End Section, according to plans and specifications; complete in place   | 2        | EA  | \$ 2,500.00    | \$5,000.00   |
| 4                            | 18" HDPE Corrugated Pipe (Culverts)  | 1500     | LF  | \$ 45.00       | \$67,500.00  |
| TOTAL Drainage Improvements  |  |          |     |                | \$94,160.00  |

Total Improvements: \$370,179.50

|                                       |             |
|---------------------------------------|-------------|
| Engineering (8.5%)                    | \$31,465.00 |
| Surveying (2.5%)                      | \$9,250.00  |
| Construction Phase Engineering (2.0%) | \$7,400.00  |
| Inspection (2.5%)                     | \$9,250.00  |

**Grand Total \$427,544.50**



|  | Principal Engineer | Project Manager | Project Engineer | CADD Technician | Clerk    | Inspector         |
|--|--------------------|-----------------|------------------|-----------------|----------|-------------------|
| Pre-Bid Meeting                            |                    |                 |                  |                 |          | 2                 |
| Bid Opening                                |                    |                 |                  |                 |          | 2                 |
| Construction Inspections                   |                    |                 |                  |                 |          | 118               |
| Pre-Construction Meeting & N.T.P.          |                    |                 |                  |                 |          | 1                 |
| <b>Bidding and Negotiating Phase Total</b> | <b>0</b>           | <b>0</b>        | <b>0</b>         | <b>0</b>        | <b>0</b> | <b>123,333.33</b> |

|   | \$200/Hr<br>Principal Engineer | \$130/Hr<br>Project Manager | \$175/Hr<br>Project Engineer | \$85/Hr<br>CADD Technician | \$65/Hr<br>Clerk | \$75/Hr<br>Inspector |
|---|--------------------------------|-----------------------------|------------------------------|----------------------------|------------------|----------------------|
| Construction Phase Engineering Bidding & Award (Task 6) |                                |                             |                              |                            |                  |                      |
| Advertisement   | 1                              |                             |                              |                            | 1                |                      |
| Pre-Bid Meeting   | 1                              |                             | 1                            |                            | 1                |                      |
| Bid Opening   | 1                              |                             | 1                            |                            | 1                |                      |
| Negotiations w/ Contractor                              |                                |                             | 1                            |                            |                  |                      |
| Notice of Award to Contractor                           |                                |                             | 1                            |                            |                  |                      |
| Pre-Construction Meeting & N.T.P.                       | 1                              |                             | 1                            |                            | 1                |                      |
| <b>Total</b>  | <b>1</b>                       | <b>4</b>                    | <b>5</b>                     | <b>0</b>                   | <b>5</b>         | <b>0</b>             |

|                                 | \$200/Hr<br>Principal Engineer | \$130/Hr<br>Project Manager | \$175/Hr<br>Project Engineer | \$85/Hr<br>CADD Technician | \$65/Hr<br>Clerk | \$75/Hr<br>Inspector |
|---------------------------------|--------------------------------|-----------------------------|------------------------------|----------------------------|------------------|----------------------|
| Construction (Task 7)           |                                |                             |                              |                            |                  |                      |
| Construction Phase Engineering  | 1                              | 2                           | 8                            |                            | 2                |                      |
| Monthly Project Status Meetings | 1                              | 1                           | 2                            |                            | 2.5              |                      |
| Construction Inspections        | 1                              | 1                           | 1                            |                            | 2.5              |                      |
| <b>Construction Phase Total</b> | <b>3</b>                       | <b>4</b>                    | <b>11</b>                    | <b>0</b>                   | <b>7</b>         | <b>0</b>             |

|                        | \$200/Hr<br>Principal Engineer | \$130/Hr<br>Project Manager | \$175/Hr<br>Project Engineer | \$85/Hr<br>CADD Technician | \$65/Hr<br>Clerk | \$75/Hr<br>Inspector |
|------------------------|--------------------------------|-----------------------------|------------------------------|----------------------------|------------------|----------------------|
| As-Builts (Task 8)     |                                |                             |                              |                            |                  |                      |
| Record Drawings        |                                |                             | 2                            | 16                         |                  |                      |
| Closing of the Project |                                |                             |                              |                            | 4                |                      |
| <b>Total</b>           | <b>0</b>                       | <b>0</b>                    | <b>2</b>                     | <b>16</b>                  | <b>4</b>         | <b>4,153,846.154</b> |

|                        |                |                |                 |                |                      |                   |
|------------------------|----------------|----------------|-----------------|----------------|----------------------|-------------------|
| <b>Total Hours</b>     | <b>23</b>      | <b>26</b>      | <b>109.5</b>    | <b>108</b>     | <b>39,715,384.61</b> | <b>123,333.33</b> |
| <b>Amount Per Hour</b> | <b>\$200</b>   | <b>\$130</b>   | <b>\$175</b>    | <b>\$85</b>    | <b>\$65</b>          | <b>\$75</b>       |
| <b>Grand Total</b>     | <b>\$4,600</b> | <b>\$3,380</b> | <b>\$19,163</b> | <b>\$9,180</b> | <b>\$2,542</b>       | <b>\$9,250</b>    |

|                           | \$1500/Day<br>Survey Team | \$90/Hr<br>Project Manager | \$120/Hr<br>Project Engineer | \$65/Hr<br>CADD Technician | \$30/Hr<br>Clerk | N/A<br>Other |
|---------------------------|---------------------------|----------------------------|------------------------------|----------------------------|------------------|--------------|
| Survey                    |                           |                            |                              |                            |                  |              |
| Field Work - Survey       | 4                         |                            |                              |                            |                  |              |
| CADD/Technician           |                           |                            |                              | 80                         |                  |              |
| Project Manager Oversight |                           | 12                         |                              |                            |                  |              |
| Final Survey              |                           | 4                          |                              |                            |                  |              |
| <b>Sub-Total</b>          | <b>\$ 6,000</b>           | <b>\$ 1,440</b>            | <b>\$ 1,280</b>              | <b>\$ 17,666,667</b>       | <b>\$ 530</b>    | <b>\$ -</b>  |
| <b>Total Amount</b>       | <b>\$9,250</b>            |                            |                              |                            |                  |              |

**CONTRACT TOTAL AMOUNT \$57,365.00**