

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. 5-1303-431-00-121-314-0-721

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.

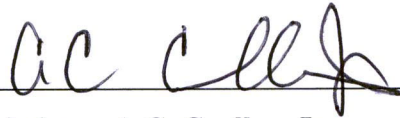
PART 6. RESPONSIBILITIES AND OBLIGATIONS

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: 

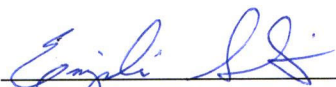
Commissioner A.C. Cuellar, Jr.


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____.

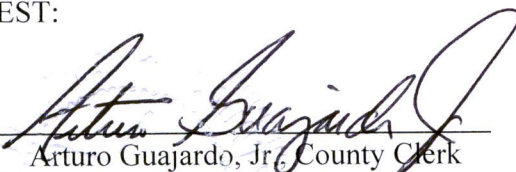
THE ENGINEER:
Le Fevre Engineering & Management Consulting, Inc.

THE OWNER:
HIDALGO COUNTY


By: Emigdio Salinas, P.E., Project Eng.


By: Ramon Garcia, County Judge

ATTEST:

BY: 
Arturo Guajardo, Jr. County Clerk

APPROVED BY
COMMISSIONERS' COURT
ON: _____

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

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.

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.

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:

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

| ID | Task Name | Start | Duration | Summary | January | February | March | April | May | June | July |
|----|---|-------------|----------|---------|---------|----------|-------|-------|-----|------|------|
| 1 | Project Start Up | Mon 2/21/15 | 7 days | | S | M | T | W | T | F | S |
| 2 | Define Scope of Work and Tasks | Mon 2/21/15 | 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 | 60-90% 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 1/23/15

Task Split

Progress Milestones

Summary Project Summary

External Tasks External MileTask

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:

| | |
|--------------------|--------------------|
| Basic Engineering | \$13,221.41 |
| Topographic Survey | \$3,894.53 |
| Total | \$17,115.94 |

*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 |
|------------------------------------|---|-----------|-----|---------------|---------------------|
| General Project | | | | | |
| 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 |
| TOTAL GENERAL PROJECT | | | | | \$0.00 |
| Pavement Improvements | | | | | |
| 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 |
| TOTAL PAVEMENT IMPROVEMENTS | | | | | \$180,454.60 |
| Pavement Improvements | | | | | |
| 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
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 McAllen, Texas 78504
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 Texas Registered Engineering Firm F-11722



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Fax: 956.687.5363

Texas Registered Engineering Firm F-11722

Exhibit D-1 - Fee Breakdown

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 | | | | | | | |

| | \$200/Hr Principal Engineer | \$130/Hr Project Manager | \$175/Hr Project Engineer | \$85/Hr CADD Technician | \$65/Hr Clerk | \$75/Hr Inspector |
|----------------------------------|--------------------------------|-----------------------------|------------------------------|----------------------------|------------------|----------------------|
| Project Start Up (Task 2) | | | | | | |
| Meeting w/ County Staff | | 1 | 1 | | | |
| Planning w/ County Staff | | 1 | 1 | | | |
| Define Scope of Work & Tasks | | 1 | 1 | | | |
| Total | 0 | 3 | 3 | 0 | 0 | 0 |

| | \$200/Hr Principal Engineer | \$130/Hr Project Manager | \$175/Hr Project Engineer | \$85/Hr CADD Technician | \$65/Hr Clerk | \$75/Hr Inspector |
|--|--------------------------------|-----------------------------|------------------------------|----------------------------|------------------|----------------------|
| Preliminary Plans (Task 4) | | | | | | |
| 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 | |
| Total | 0 | 5 | 8 | 16 | 8 | 0 |

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

CONTRACT TOTAL AMOUNT \$17,115.94