

# EXHIBIT "E"

Work Authorization

## HIDALGO COUNTY Professional Engineering Services Contract # C-15-046-03-03 Work Authorization Form

### WORK AUTHORIZATION NO. 1

**THIS WORK AUTHORIZATION** is made pursuant to the terms and conditions of Article I. of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **L & G Consulting Engineers, Inc. d/b/a L & G Engineering**, professional engineers of Mercedes, Texas, hereinafter called "**Engineer**".

#### **PART 1. SCOPE OF WORK**

The purpose of this Work Authorization is for the **Engineer** to provide: Engineering services for Feasibility Study for the Hidalgo County Pct. 2 Regional Hike & Bike Project.

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 **\$75,588.32**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D" Fee Schedule**.

#### **PART 3. PAYMENT**

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

#### **PART 4. FUNDING**

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

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

Requisition Number \_\_\_\_\_

#### **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**.

**EXHIBIT "E"**  
Work Authorization

**PART 7. ACKNOWLEDGEMENT AND CONFIRMATION**

Acknowledgement and confirmation by Hidalgo County Precinct No. 2, Commissioner Eduardo Cantu as to content and detail of this **Work Authorization No. 1**.

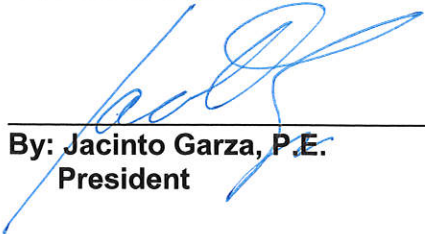
**HIDALGO COUNTY  
COMMISSIONER PRECINCT NO. 2**

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

**PART 8. ACCEPTANCE AND APPROVAL**

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

**THE ENGINEER:  
L&G ENGINEERING**

  
\_\_\_\_\_  
By: **Jacinto Garza, P.E.**  
President

**THE OWNER:  
HIDALGO COUNTY**

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

**ATTEST:**

\_\_\_\_\_  
By: **Arturo Guajardo, Jr., County Clerk**

**LIST OF ATTACHMENTS**

- Exhibit A – Services to be Provided by the Owner
- Exhibit B – Services to be Provided by the Engineer
- Exhibit C – Work Schedule
- Exhibit D – Fee Schedule

**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 Feasibility Study of the proposed Regional Hike & Bike Trail located within the Cities of Pharr, San Juan & McAllen and within the limits of South San Antonio Avenue to South 2<sup>nd</sup> Street in Hidalgo County hereinafter denoted as the **Project**.

**GENERAL:**

The **Owner** will provide to the **Engineer** the following:

- 1) Provide the authorization to proceed with services through coordination with the project consulting and design Engineer.
- 2) Payment for work performed by the **Engineer** and accepted by the **Owner** in accordance with Article 3 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 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” attached to this Work Authorization.
- 6) Attend and participate in progress meetings as required and as coordinated and conducted by **Engineer**.

**EXHIBIT “B”**  
**Services to be Provided by the Engineer**

**PROJECT INFO:**

- **Project Name:** Regional Hike & Bike Trail Feasibility Study
- **Project Limits:** From South San Antonio Ave. to South 2<sup>nd</sup> St.

**GENERAL SCOPE OF WORK:**

The work to be performed by the **Engineer** under this Work Authorization shall consist of providing Engineering Services required for a Feasibility Study of the proposed Regional Hike & Bike Trail located within the Cities of Pharr, San Juan & McAllen and within the limits of South San Antonio Avenue to South 2<sup>nd</sup> Street in Hidalgo County hereinafter denoted as the **Project**.

The **Engineer** will furnish all equipment, materials, supplies, and incidentals as needed to perform the services required by this Work Authorization, except as otherwise specified in Exhibit A, “Services to be Provided by the **Owner**”.

Specific activities to be performed by the **Engineer**, as generally outlined in the Contract, include the following:

**SECTION 2 – FEASIBILITY STUDIES**  
(Function Code 102)

Services

Provided By:

ENGINEER COUNTY

- |            |           |   |
|------------|-----------|---|
| <u>YES</u> | <u>NO</u> | Preliminary Design Values<br>The <b>Engineer</b> will work with the <b>Owner</b> to establish basic design concepts, project controls and general scope of project.   |
| <u>YES</u> | <u>NO</u> | Uncontrolled Mapping (w/Contours & GIS Info)<br>The <b>Engineer</b> will investigate various routes and coordinate with the <b>Owner</b> on establishing the best-fit alignment and geometry.   |
| <u>YES</u> | <u>NO</u> | Preliminary Location Design Layout<br>The <b>Engineer</b> will complete a finalized layout for the <b>Project</b> upon completion of route studies and all other tasks noted in this Work Authorization. The layout will include final alignment, crossing locations, proposed locations of potential parking access areas, and typical sections. |
| <u>YES</u> | <u>NO</u> | Preliminary ROW Requirements<br>The <b>Engineer</b> will research and identify affected property owners on the <b>Project</b> alignment utilizing the latest appraisal district file information from   |

Hidalgo County Appraisal District and information from Carson Maps. The **Engineer** will document any easements affecting parcels.

- |            |           |   |
|------------|-----------|---|
| <u>YES</u> | <u>NO</u> | <p>Preliminary Cost Estimates</p> <p>The <b>Engineer</b> will calculate preliminary construction cost estimates for the finalized locations and geometry of the <b>Project</b>. The cost estimates will be developed for two (2) paving scenarios of asphalt pavement option and concrete option.</p>   |
| <u>YES</u> | <u>NO</u> | <p>Preliminary Environmental Analysis (for fatal flaws)</p> <p>The <b>Engineer</b> will perform “Preliminary Environmental Constraint Mapping to determine if any fatal flaws exist along the proposed alignment.</p>   |
| <u>YES</u> | <u>NO</u> | <p>Preparation of Project Fact Sheet (Est. Local Cost vs. Total Project Cost)</p>   |
| <u>YES</u> | <u>NO</u> | <p>Evaluation of Crossings at Major Roadways &amp; Coordination w/ TxDOT</p> <p>The <b>Engineer</b> will coordinate with the <b>Owner</b> to establish design options for crossings at major roadways. The crossings will be part of the Design Visualization task of this Work Authorization. Coordination with TxDOT on crossing types/locations is also part of this task.</p> |
| <u>YES</u> | <u>NO</u> | <p>Design Visualization</p> <p>The <b>Engineer</b> will develop various design visualizations for the project including exhibits, preliminary layouts, 3-dimensional models &amp; renderings and 3-dimensional videos. The design visualizations will be utilized for all other tasks of this Work Authorization.</p>   |
| <u>YES</u> | <u>NO</u> | <p>Production of Funding Application</p> <p>The <b>Engineer</b> will coordinate with and assist the <b>Owner</b> in preparation of the Hidalgo County MPO TAC Application for 2015 TAPA funding. The <b>Engineer</b> will also assist in the development of all necessary attachments to the application.</p>   |
| <u>YES</u> | <u>NO</u> | <p>Outreach with Affected Municipalities</p> <p>The <b>Engineer</b> will coordinate with the <b>Owner</b> to plan meetings with cities and counties for support of the <b>Project</b>. In meetings, the <b>Engineer</b> will assist in the presentation of project data and visualization. This task may also include informal correspondence (phone, fax, email, etc.)</p>       |

*Hidalgo County Pct. 2 – WA#1  
Regional Hike & Bike Trail Feasibility Study*

YES

NO

Meetings, Coordination & Support for Project Development

The **Engineer** shall provide coordination services and shall assist in meetings and workshops with Hidalgo County, Hidalgo County Drainage District No. 1 and Hidalgo County Irrigation Districts. The **Engineer** shall serve as representative for the **Owner** in coordination items. The **Engineer** shall coordinate with the **Owner's** staff on all **Project** related items.

**EXHIBIT "C"**  
**PROJECT SCHEDULE**

2015												
TASK AND DESCRIPTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>Feasibility Study</b>												
Route Studies, Geometrics, Project Exhibits, Cost Estimates												
Design Visualization (Exhibits, Layouts, 3-D Models & Videos, etc.)												
Coordination w/ Affected Parties (Pct #2, HCDD #1, HCID #2, TxDOT, Cities, County, etc.)												
Final Regional Hike & Bike Layout												
HCMPO TAP Funding Application (w/ All Coordination & Attachments)												

**EXHIBIT D  
FEE PROPOSAL**

**Regional Hike and Bike Trail  
HIDALGO COUNTY PRECINCT #2**

		MANHOURS						L&G TOTAL HOURS
		Senior Project Manager	Senior Engineer	Project Engineer	Senior Engineering Technician	ROW Administrator	Admin / Clerical	
TASK								
<b>WA #1 - Regional Hike &amp; Bike Trail Feasibility Study &amp; TAP Application</b>								
1	Preliminary Design Values	4		8	8			20
2	Uncontrolled Mapping (w/Contours & GIS Info)	16		32	52			100
3	Preliminary Location Design Layout	8	4	32	24			68
4	Preliminary ROW Requirements			8	12	20	4	44
5	Preliminary Cost Estimates	12	8	24	4		4	52
6	Preliminary Environmental Analysis (for fatal flaws)	4		10		2		16
7	Preparation of Project Fact Sheet (Est. Local Cost vs. Total Project Cost)	4	2	10				16
8	Evaluation of Crossings at Major Roadways & Coordination w/ TxDOT	8	10	20				38
9	Design Visualization			12	30			42
10	Production of Funding Application	6	10	16	4		2	38
11	Outreach with Affected Municipalities	12		8				20
12	Meetings & Coordination & Support for Project Development Activities	22	10	28	4		6	70
<b>Subtotal Hours</b>		<b>96</b>	<b>44</b>	<b>208</b>	<b>138</b>	<b>22</b>	<b>16</b>	<b>524</b>
Hourly Base Rate		\$ 70.00	\$ 58.00	\$ 43.00	\$ 30.00	\$ 34.00	\$ 20.00	
FY 15 Contract Hourly Rate w/ OH Mult. (178.12%) & Fixed Fee (12.00%)		\$ 218.04	\$ 180.66	\$ 133.94	\$ 93.45	\$ 105.91	\$ 62.30	
<b>Total Labor Costs</b>		<b>\$ 20,931.84</b>	<b>\$ 7,949.04</b>	<b>\$ 27,859.52</b>	<b>\$ 12,896.10</b>	<b>\$ 2,330.02</b>	<b>\$ 996.80</b>	<b>\$ 72,963.32</b>

**L&G Direct Expenses**

30 Ft. Long by 3.5 Ft. Tall Hike & Bike Overall Exhibit (105 sq. ft.) @ \$5.00/sq. ft. - 5 Total Prints

Subtotal (Direct Expenses)

**Cost Proposal**

\$ 2,625.00

\$ 2,625.00

**Grand Total                   \$    75,588.32**