

HIDALGO COUNTY
Professional Engineering Services
Contract # C-06-251-08-15
Work Authorization / Work Order Form

Work Authorization / Order No. 2

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 1 of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and **R. Gutierrez Engineering Corporation**," professional engineers of Pharr, Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide professional engineering and surveying services on a 0.5 mile extension to the McColl Road project. Hidalgo County desires to extend the limits of the current McColl Road project with limits from Dicker Road on the south to Rancho Blanco Road on the north, authorized by a previous work authorization. This extension will include a 0.5 mile section of road with limits from Military Road (SP 241) on the north and extending 0.5 miles south, in Hidalgo, Texas. The length of the project extension is approximately 0.5 miles.

The work will consist of providing professional engineering and surveying services for the development and upgrading of McColl Road from county road standards to an urban curb & gutter road with drainage improvements. Off-site drainage improvements will be included as part of this 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 **\$ 101,661.00**. This amount is based upon the costs outlined in the **Estimated Cost Proposal** attached hereto as **Attachment "D"**.

PART 3. PAYMENT

Compensation and payment to the **Engineer** for the services established under this Work Authorization shall be made in accordance with Article 8 of the **Agreement**.

PART 4. FUNDING

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

Account No. _____

Requisition No. _____

PART 5. PERIOD OF SERVICE

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

PART 6. RESPONSIBILITIES AND OBLIGATIONS

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

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and conformation by Hidalgo County Precinct No. 2 Commissioner Hector Palacios as to the content and detail of the 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 Commissioner's Court on _____ as indicated below and effective as of _____ day of _____, 2006.

THE ENGINEER:
R. Gutierrez Engineering Corporation

THE OWNER:
HIDALGO COUNTY


By: Ramiro Gutierrez, President

By: Ramon Garcia, County Judge or Presiding Officer

ATTEST:

By: Eddy Trevino, 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 – Estimate Cost Proposal

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Professional Engineering Services
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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**.

General

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

- (1) Payment for work performed by the **Engineer** and accepted by the **Owner** in accordance with Article 5 and Article 6, both of this Agreement.
- (2) 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.
- (3) Provide any available relevant data the **Owner** may have on file concerning the project.
- (4) Provide timely review and decisions in response to the **Engineer's** request for information and/or required submittals and deliverables.
- (5) Attend and participate in progress meetings as required and as coordinated and conducted by the **Engineer**.

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EXHIBIT B

Services to be Provided by the Engineer

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

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

PRELIMINARY PHASE

The Engineer will perform, or provide for, professional engineering and surveying services for the preliminary engineering part of the development and upgrading of McColl Road from county road standards to urban road. The engineer will establish horizontal and vertical control for use in developing a base map for the Project. The Engineer will develop a schematic of the proposed improvements and develop a right-of-way map and parcels based on the approved schematic.

Field Surveying. The Engineer will secure written permission to enter private property for the purpose of surveying and engineering investigations. The surveyor will establish primary Project control for field surveying by establishing horizontal and vertical control points, and tie ground control to the State Plane Coordinate System.

Schematic Design. The Engineer will develop a final schematic design of the proposed project improvements. A maximum of two (2) different preliminary schematic designs will be developed and presented to the public at a public meeting. From the comments received at the meeting one (1) final schematic design will be developed.

DESIGN PHASE

The Engineer will perform, or provide for, professional engineering services for the plans, specifications and estimate part for of the development and upgrading of McColl Road as previously described.

Plans Development. The Engineer will perform, or provide for, professional, surveying, geotechnical and engineering design services for the preparation of plans for the development and upgrading of McColl Road. The engineer will perform field surveys to obtain additional information that was not gathered during the schematic design part of

the project. Geotechnical investigations will be performed by the engineer to obtain necessary data for the proper design of the project. The engineer will provide for the engineering design services necessary for the development of the final construction plans, specifications and estimate for completing the project.

Engineering Design. The engineer will provide, or provide for, the development of the plans, specifications and estimate for the construction of the project. The plans will be developed to TxDOT standards, on 11"x17" sheets, and will be revised as necessary to meet TxDOT requirements. The plans will include, but not limited to, title sheet, project layout, specification data, estimate and quantity, typical sections, sequence of construction, traffic control plan, plan & profile, roadway & drainage layout, bridge layout & details (if necessary), culvert layout & details (as necessary), hydraulic data, drainage area map, drainage details, drain ditch details, storm water pollution prevention plan (SW3P), irrigation structure adjustment details, signing details, striping details, and traffic signal layout & details. The project cost estimate will be developed to meet TxDOT requirements and based on the unit price system of bidding. The engineer will not be required to guarantee the accuracy of those estimates.

The engineer will provide the horizontal and vertical design for the proposed roadway improvements. All vertical and horizontal alignment will be developed utilizing GEOPAK. The engineer will also provide the drainage design, including off-site drainage, utilizing HEC-HMS, HEC-RAS, TR-55, Winstorm or other TxDOT approved methods. Plans will be developed utilizing Microstation J as the CADD software package. All other elements of design will be developed utilizing TxDOT approved and accepted methods. All design shall in all respects combine the application of sound engineering principles with a high degree of economy.

CONSTRUCTION PHASE

The Engineer will perform, or provide for, professional engineering services for the construction phase of the development and upgrading of McColl Road. The engineer will provide construction administration services on the project. The engineer will assist Owner with issues that may come up and provide information and construction engineering services as requested by Owner. The engineer will act as Owner's representative in meetings concerning the construction of the project. Detailed construction staking is not part of this work authorization. The Engineer will develop as built drawings to depict the work as actually constructed. The Owner will be furnished two (2) set of prints.

ADDITIONAL SERVICES

Right - Of - Way Mapping and Parcels

The Engineer will develop a right-of-way map for the Owner to use in acquiring the necessary parcels to implement the project. Procedures followed will be those satisfying TxDOT requirements for federally funded projects. The surveyor will utilize ownership information provided by the Owner in developing the right-of-way map. The

surveyor will perform field surveying to establish the existing and proposed right-of-way lines and easement boundaries. The surveyor will prepare field notes and parcel sketches, signed and sealed by a Registered Professional Land Surveyor, for each parcel to be acquired. The surveyor will perform any necessary revisions to the right-of-way map, field notes and parcel sketches as required to complete the project.

R. Gutierrez
Engineering Corporation

McColl Road Improvements
Military Highway
to 1/2 Mile South

EXHIBIT "C"
WORK SCHEDULE

	2006			2007		
	NOV	DEC	JAN	FEB	MAR	
Preliminary Phase						
Design Phase						
Construction Phase						

**R. GUTIERREZ ENGR CORP
SUMMARY****EXHIBIT D
Fee Proposal****McColl Road
Military Highway
to 1/2 Mile South**

TASK	ESTIMATED CONSTRUCTION COST	PROFESSIONAL SERVICES FEE (10.5%)
PLANS, SPECIFICATION & ESTIMATE		
Mission Paving Contract	\$353,565	\$37,124
McAllen Construction Contract	\$342,602	\$35,973
Work Done by County Forces	\$272,033	\$28,564
SUB-TOTAL	\$968,201	\$101,661
TOTAL ESTIMATED FEE		\$101,661