

HIDALGO COUNTY
Professional Engineering Services
Contract # C-13-305-10-07
Work Authorization Form
WORK AUTHORIZATION NO. 7

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, 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 the Engineering Services required for Preliminary Engineering Design for the Mile 3 project from Tom Gill to FM 2221 & Connections to US83 Relief Route.

The scope of services to be provided by the Owner is identified in *EXHIBIT "A" - 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 \$241,800.00. This amount is based upon the costs outlined in the Estimated Cost Proposal attached hereto as *EXHIBIT "D-1" - Estimated Man-hour Breakdown*.

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. 7 shall be funded through funding source:

Account No. 9-1351-431-00 123-123-0-841

Requisition Number _____ (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, as identified on *EXHIBIT "C" - Work Schedule*.

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. 3, Commissioner Joe Flores as to the content and detail of this Work Authorization No. 7.

**HIDALGO COUNTY
COMMISSIONER PRECINCT NO. 3**

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: Richard Cortez,
County Judge

ATTEST:

By: Arturo Guajardo, Jr., County Clerk

LIST OF EXHIBITS

- Exhibit A - Services to be provided by Owner
- Exhibit B - Services to be provided by Engineer
- Exhibit C - Work Schedule
- Exhibit D1- Estimated Man-hour Breakdown

EXHIBIT "A"
SERVICES TO BE PROVIDED BY THE OWNER

1. The COUNTY will issue work authorization to initiate all required services and designate the authorized representative of the coordination of each work authorization.
2. The COUNTY will provide the ENGINEER with on-going guidance, timely reviews, and decisions necessary to complete services required by the work authorization in order to permit the ENGINEER to maintain an agreed upon project schedule.
3. The COUNTY will process all acceptable requests for payment in a timely manner.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 1-PROJECT DESCRIPTION

The services designated herein as "Services provided by the ENGINEER" shall include the performance of all engineering services for the following described facility:

COUNTY/CITY: HIDALGO COUNTY

CONTROL: _____

PROJECT/DESCRIPTION: MILE 3 ROADWAY PROJECT

LENGTH: 3.0 MILES

HIGHWAY: MILE 3 CONNECTING ROADWAYS

LIMITS: FROM FM 2221 TO TOM GILL ROAD & CONNECTIONS TO US 83 RELIEF ROUTE

PROJECT CLASSIFICATION

(Place an "X" in only one Project Classification)

- Surface Treatment
- Overlay
- Rehabilitation Existing Road (Scarify & Reshape)
- Convert Non-Freeway to Freeway
- Widen Freeway
- Widen Non-Freeway
- New Location Toll Freeway
- New Location Non-Freeway
- Interchange (New or Reconstruct)
- Bridge Widening or Rehabilitation
- Bridge Replacement
- Upgrade to Standards - Freeway
- Upgrade to Standards - Non-Freeway
- Miscellaneous Studies (Use Function Code 110 for All Tasks)

ENGINEER shall mean L&G Engineering.

STATE shall mean Texas Department of Transportation.

LPA (Local Public Agency) shall mean the COUNTY OF HIDALGO.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

FUNCTION CODE 102

Services
 Provided By:
ENGINEER LPA

<u>YES</u>	<u>NO</u>	Preliminary Design Values <i>The Engineer will work with the Owner to establish basic design concepts, project controls and general scope of Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Route Locations on Uncontrolled Mapping <i>The Engineer will evaluate various alternatives (route locations, alignment shifts, geometry) for the Project.</i>
<u>YES</u>	<u>NO</u>	Uncontrolled Mapping (w/Contours & GIS Info) <i>The Engineer will investigate the existing routes and coordinate with the Owner on establishing the best-fit alignments and mapping proposed geometry for Projects. Preliminary Location Exhibit will be developed.</i>
<u>NO</u>	<u>NO</u>	Preliminary Traffic Evaluations & Trends <i>The Engineer will investigate existing traffic models and trends for the proposed Projects and adjacent roadways tying into the proposed Projects.</i>
<u>YES</u>	<u>NO</u>	Preliminary Hydrologic Map <i>The Engineer will develop a Hydrologic Map for the Projects. Hydrologic Maps will be based on LIDAR and GIS information.</i>
<u>YES</u>	<u>NO</u>	Preliminary ROW Requirements <i>The Engineer will research and identify affected property owners on the Projects utilizing the latest appraisal district file information from Hidalgo County Appraisal District and information from Carson Maps.</i>
<u>YES</u>	<u>NO</u>	Preliminary Schematic
<u>YES</u>	<u>NO</u>	Preliminary Identification on Concept Schematic of Compensable Utilities
<u>YES</u>	<u>NO</u>	Update Schematic in Coordination with TxDOT
<u>YES</u>	<u>NO</u>	Preliminary Cost Estimates <i>The Engineer will calculate preliminary construction cost estimates for the location and geometry of the Projects.</i>
<u>NO</u>	<u>NO</u>	Preliminary Environmental Analysis (for fatal flaws) <i>The Engineer will perform Preliminary Environmental Constraint Mapping to determine if any fatal flaws exist along the proposed alignment.</i>
<u>YES</u>	<u>NO</u>	Project Fact Sheet with Est. Local Cost vs. Total Project Cost <i>The Engineer will produce a Project Fact Sheet providing summaries of all pertinent items in this scope of services (as required) and providing estimated local costs vs. total project costs for the Projects.</i>
<u>YES</u>	<u>NO</u>	Meetings, Coordination & Support for Project Development <i>The Engineer shall provide coordination services and shall assist in meetings and workshops with TxDOT, Hidalgo County, Hidalgo County and the City of La Joya and all other affected parties. 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.</i>

EXHIBIT C - PROJECT DEVELOPMENT SCHEDULE

MILE 3 PROJECT

TASK AND DESCRIPTION	FIRM	2019											
		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PHASE I: PRELIMINARY ENGINEERING DESIGN													
Preliminary Design Values	L&G												
Preliminary Route Locations	L&G												
Uncontrolled Mapping (w/Contours & GIS Info)	L&G												
Preliminary Hydrological Map	L&G												
Office Surveys for Schematic (Prel. Ownership Ident & Property Rights)	L&G												
Preliminary Schematic including Engineering Tech Support at Stakeholder Meetings w/Layouts	L&G												
Preliminary Compensable Utility Management Identification on Schematic	L&G												
Update Schematic based on TxDOT Comments for Schematic	L&G												
Preliminary Cost Estimate	L&G												
Project Management (Meetings, Coordination & Support for Project Development)	L&G												

 L&G FUNCTION

**EXHIBIT D-1
ESTIMATED MAN-HOUR BREAKDOWN**

**MILE 3 PROJECT
(from FM 2221 to Tom Gill & Connections to US83 Relief Route)**

	MANHOURS										TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Senior Environmental Scientist /Specialist	Project Engineer	Senior Engineer Tech	CADD Operator / GIS Analyst	Admin / Clerical	TOTAL HOURS	Sub-Contract Amount(s)	ROW Acquisition Total	
CONTRACT RATE	215.40	167.89	136.21	123.54	79.19	66.52	57.02				
WORK AUTHORIZATION NO. 7											
PHASE III - PRELIMINARY ENGINEERING DESIGN											
1 Preliminary Design Values	10	40	6	92	0	7	1.435	156.435			\$ 21,600.00
2 Preliminary Route Locations	10	30	8	80	120	120	6.160	374.16			\$ 36,000.02
3 Uncontrolled Mapping (w/Contours & GIS Info)	4	10	8	20	20	19.772	0	81.772			\$ 9,000.01
4 Preliminary Hydrologic Map	8	24	8	80	111	110	2.934	343.934			\$ 33,000.03
5 Office Surveys for Schematic (Prel Ownership Identification and Property Rights)	4	8	4	24	82	80	8.25	210.25			\$ 18,000.12
6 Preliminary Schematic including Engineering Technical Support (at Stakeholder Meetings w/Layouts)	3	6	4	24	24	29.106	0	90.106			\$ 9,000.03
7 Preliminary Compensable Utility Management Identification on Schematic	3	4	2	38	75	80	7.97	209.97			\$ 18,000.00
8 Update Schematic based on TxDOT comments for Schematic	12	24	8	94	140	131	8.466	417.466			\$ 39,600.05
9 Preliminary Cost Estimates	8	16	8	180	60	50	3.267	325.267			\$ 36,000.00
10 Project Management (Meetings, Coordination & Support for Project Development)	10	40	6	92	0	8.23	0	156.23			\$ 21,600.00
SUB-TOTAL	54	146	48	452	572	576.878	35.215	1884.093	\$ -	\$ -	\$ 241,800.27

Sub-Total Manhours Fee with Subconsultant Fee:	\$ 241,800.27
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* TOTAL PROJECT FEE:	\$ 241,800.00
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*Rounded Figure