

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

WORK AUTHORIZATION NO. 4

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:

Environmental Assessment, Public Involvement and Schematic Design for the Pct 2 Regional Linear Park 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 **\$569,547.12**. 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. 4 shall be funded through funding source:

Account No. 5-1345-452-00-122-110-0-740

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.

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. 4**.

**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**


**THE OWNER:
HIDALGO COUNTY**


By: Jacinto Garza, P.E.
President


By: Ramon Garcia
County Judge

ATTEST:

APPROVED BY
COMMISSIONERS' COURT
ON: 10/13/15 


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** for the Environmental Assessment, Public Involvement and Schematic Design of the proposed Regional Linear Park Project located within the Cities of Pharr, San Juan & McAllen and within the limits of South San Antonio Avenue to South 2nd 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"
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: Environmental Assessment, Public Involvement,
and Schematic Design for the Hidalgo County
Pct. 2 Regional Linear Park Project

LENGTH: 7.8 Miles (Approx.)

HIGHWAY: Prop. Linear Park

LIMITS: From San Antonio Ave. (San Juan) to 2nd Street (McAllen)

EXISTING FACILITY

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)
- Pedestrian Facility – Linear Park

ENGINEER shall mean L&G Consulting Engineers, Inc.

STATE shall mean Texas Department of Transportation (TxDOT).

COUNTY shall mean the Hidalgo County.

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

SECTION 3 - ROUTE AND DESIGN STUDIES
(Function Code 110)

Services
Provided By:
ENGINEER COUNTY

<u>YES</u>	<u>NO</u>	1. Route Location Studies
<u>N/A</u>	<u>N/A</u>	2. Level of Service Analysis
<u>N/A</u>	<u>N/A</u>	3. Traffic Evaluations and Projections
<u>YES</u>	<u>NO</u>	4. Develop Roadway Design Criteria (Hike & Bike Trail Criteria)
<u>YES</u>	<u>NO</u>	5. Preliminary Cost Estimates
<u>YES</u>	<u>NO</u>	6. Design Schematic (See Section 7, page 7-1 for schematic layout requirements)
<u>YES</u>	<u>NO</u>	7. Preliminary Right-of-Way Requirements
<u>YES</u>	<u>NO</u>	8. Design Concept Conference
		9. Soil Core Hole Drilling
<u>NO</u>	<u>NO</u>	a. Pavement
<u>NO</u>	<u>NO</u>	b. Retaining Walls
<u>NO</u>	<u>NO</u>	c. Miscellaneous Structures
<u>NO</u>	<u>NO</u>	d. Bridges

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

SECTION 4
SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT
(Function Code 120)

Services
Provided By:
ENGINEER COUNTY

1. Environmental Reports
All Environmental Reports shall be in accordance with 43 Texas Administrative Code (TAC) 2.40-2.51, Code of Federal Regulations, Title 23, Part 771 and Highway Design Operations and Procedures Manual, Part II-B.
 - a. Environmental Assessments

<u>YES</u>	<u>NO</u>	(1) An Environmental Assessment shall be prepared, anticipating a Categorical Exclusion.
<u>N/A</u>	<u>N/A</u>	(2) An Environmental Assessment shall be prepared, anticipating a Finding of No Significant Impact.
<u>N/A</u>	<u>N/A</u>	(3) An Environmental Assessment shall be prepared, anticipating the need for a Draft Environmental Impact Statement.
 - b. Environmental Impact Statement

<u>N/A</u>	<u>N/A</u>	(1) A Draft Environmental Impact Statement shall be prepared. After appropriate interagency and public reviews within time limits prescribed by the Code of Federal Regulations, Title 23, Part 771 and 43 Texas Administrative Code 2.40-2.51, a Final Environmental Impact Statement shall be prepared.
<u>N/A</u>	<u>N/A</u>	(2) A Section 4(f) Statement (Department of Transportation Act) shall be provided by the ENGINEER. The format and content of the statement is found in FHWA Technical Advisory T6640.8A.

2. Public Involvement
All public involvement procedures shall be in accordance with 43 Texas Administrative Code (TAC) 2.40-2.51, Code of Federal Regulations Title 23, Part 771 and Highway Design Operations and Procedures Manual, Part II-B.
 - a. A public involvement meeting(s)/hearing(s) shall be scheduled, coordinated and conducted.*

<u>YES</u>	<u>NO</u>	
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 - b. Technical assistance, meeting(s)/hearing(s) preparation, maintenance of contracts lists, minutes of meeting(s), exhibit preparation, and other tasks outlined by the COUNTY, shall be provided.

<u>YES</u>	<u>NO</u>	
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3. Cultural Resources
Formal consultation with the State Historic Preservation Office (SHPO) and the Texas Historical Commission (THC) will be conducted by the COUNTY.

<u>YES</u>	<u>NO</u>	a. Historic Structure Studies A records search and reconnaissance survey shall be performed, and documentation prepared regarding identification efforts, National Register eligibility and potential impacts to historic properties in accordance with the state's historic structure requirements.
<u>YES</u>	<u>NO</u>	b. Archeological Studies <ol style="list-style-type: none"> (1) Files searches shall be conducted to determine if known archeological sites are present; to identify whether these sites have been listed or determined eligible for the National Register of Historic Places or have been designated State Archeological Landmarks; and to identify the need (if any) to perform additional archeological investigations. (2) Archeological reconnaissance will be performed under a Texas Antiquities Permit (13 TAC 26) signed for the Sponsor by a professional archeologist with the STATE. (3) Archeological survey shall be performed under a Texas Antiquities Permit (13 TAC 26) signed for the Sponsor by a professional archeologist with the STATE.
<u>YES</u>	<u>NO</u>	
<u>YES</u>	<u>NO</u>	

EXHIBIT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Services
 Provided By:
ENGINEER COUNTY

- | | | |
|------------|------------|--|
| <u>N/A</u> | <u>N/A</u> | <p>4. Noise and Air Quality Analyses</p> <p>a. Noise Analysis
 A noise analysis shall be prepared, including predicted noise levels and the consideration and evaluation of noise mitigation, in accordance with the STATE’S Noise Guidelines. The noise analysis or a summary of the noise analysis shall be included in the environmental document for the project.</p> |
| <u>N/A</u> | <u>N/A</u> | <p>b. Air Quality Analysis
 An air quality analysis shall be prepared in accordance with the STATE’S Air Quality Guidelines. The air quality analysis or a summary of the air quality shall be included in the environmental document for the project.</p> |
| <u>YES</u> | <u>NO</u> | <p>5. Ecological Investigations
 A wetland survey and if necessary, a wetland delineation shall be conducted and a “wetland finding” shall be provided if necessary. As part of the environmental phase of the project, the consultant should notify the District if it is believed that a Section 404 or Section 9 permit is required, and provide the technical data to the District for application to the U.S. Army Corps of Engineers and/or the U.S. Coast Guard.</p> <p>A determination should be made if there are potential federally listed endangered or threatened species that could be impacted. The District will be notified as soon as possible that Section 7 or 10 consultations may be required. Supporting data will be furnished to the district when consultation with the U.S. Fish and Wildlife Service is undertaken.</p> |
| <u>YES</u> | <u>NO</u> | <p>6. Hazardous Materials
 The consultant shall perform an Environmental Site Assessment for hazardous materials impact in accordance with the American Society for Testing and Materials (ASTM) 1528.93 (Transaction Screen Process).</p> |
| <u>YES</u> | <u>NO</u> | <p>7. General Guidelines for Preparation of Environmental Documents</p> <p>a. The Biological Impact Evaluation Report will be prepared and submitted electronically to TxDOT.</p> <p>b. All cultural resource reports (i.e. Archeological and Historical Project Coordination Requests (PCRs), background and reconnaissance surveys) will be submitted electronically to TxDOT.</p> <p>c. The draft administratively complete document will be submitted to TxDOT electronically through their FTP site.</p> <p>d. The administratively complete document will be prepared in accordance with the content and format of FHWA Technical Advisory T6640.8A and the TxDOT Administrative Code 43 TAC §2.44.</p> <p>e. The administratively complete document will be submitted to TxDOT electronically through their FTP site.</p> <p>f. Upon completion and approval of the administratively and technically complete document, the Engineer will provide one (1) hard copy to the Client, one (1) hardcopy to the district, and (3) hardcopies to TxDOT ENV.</p> <p>g. Exhibits in the environmental document shall be color copies and text shall be black and white.</p> |

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

SECTION 7 - ROADWAY DESIGN CONTROLS
(Function Code 160)

Services
Provided By:
ENGINEER COUNTY

YES
YES

NO
NO

1. Geometric Design
 - a. Horizontal and Vertical Alignment
 - b. Schematic Layout
 - (1) The location of interchanges, main lanes, grade separations, frontage roads and ramps.
 - (2) Develop vertical and horizontal alignment of main lanes, ramps and cross roads at proposed interchanges or grade separations. Frontage road alignment data need not be shown on the schematic; however, it should be developed in sufficient detail to determine ROW needs. The degree of horizontal curves and vertical curve data, including "K" values, shall also be shown for ease of checking.
 - (3) A complete explanation of the sequence and methods of stage construction, if proposed, including the initial and ultimate proposed treatment of crossovers and ramps.
 - (4) The tentative ROW limits.
 - (a) Provide a roadway Design System (RDS) or (GEOPAK) computer tape of the preliminary earthwork to verify ROW requirements.
 - (b) Provide a graphics file containing the approved schematic.
 - (5) The geometric (pavement cross slopes, lane and shoulder widths, slope rates for fills and cuts) of the typical sections of proposed highway main lanes, ramps, frontage roads, and cross roads.
 - (6) Direction of traffic flow on all roadways.
 - (7) The geometric of speed change (acceleration, deceleration, climbing) lanes.

YES

NO

2. General Guidelines for Project Development
 - a. Prior to preparing detailed plans for a proposed project, a preliminary schematic layout shall be prepared which indicates the general geometric features and location requirements peculiar to the project. An uncontrolled aerial mosaic will be provided for this use. Four copies of the schematic layout shall be submitted through the district to the Design Division for approval and subsequent coordination with the Federal Highway Administration (FHWA) where applicable. **No geometric design is to be performed until the COUNTY has given the engineer written approval of the preliminary schematic layout.**
 - b. All geometric design shall be in conformance with the State's Design Division, Operations and Procedures Manual, except where variances are permitted in writing by the STATE.
 - c. The schematic layout shall include basic information which is necessary for the proper review and evaluation including the items listed above in the checklist for schematic layout.
 - d. Handling of traffic during construction shall be a consideration in the development of preliminary designs.

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

Services
Provided By:
ENGINEER COUNTY
YES NO

2. General Guidelines for Project Development (*continued*)
- e. Upon approval of the schematic layout by Design Division (FHWA on Federal-aid projects), it shall be the basis for an exhibit at any required public hearing prior to final development of the project. If there are any changes to the schematic after the Design Division and FHWA approval and before the public hearing, four copies of the revised schematic, as displayed at the hearing, shall be submitted either prior to or accompanying the public hearing data. If there are no changes in the schematic as displayed at the hearing, only photographs of the schematic and other displays shall be submitted with the public hearing data.
 - f. On complex projects, informal contact through the district with the Design Division and FHWA personnel is encouraged with regard to development of preliminary design prior to official schematic submission.
 - g. The engineer shall furnish a project tape that is compatible with the STATE's computer system, a project listing, and a cross section plot showing the original design sections containing the earthwork input and original cross sections for the project.

EXHIBIT C
 PROJECT DEVELOPMENT SCHEDULE
 Regional Linear Park Project - Phase I
 From San Antonio Ave. to 2nd Street
 Length = 7.80 miles

TASK AND DESCRIPTION	2015			2016			2017								
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Phase I: EA Public Involvement, Schematic															
Develop Alternatives & Matrix															
Advise & Conduct Public Meeting															
Select TPA															
Public Hearing (if Req.)															
Develop Schematic															
TxDOT Review & Revisions (w/ L&G Coord & Updates)															
TxDOT Schematic Approval															
Draft Environmental Document, Field Visits, etc.															
Submit Final Draft Document															
Agency Review & Revisions (w/ L&G Coord. & Updates)															
Environmental Decision															

L&G FUNCTION
 ENVIRONMENTAL ASSESSMENT WORK
 TxDOT FUNCTION (w/ L&G COORD WHERE NOTED)
 HIDALGO COUNTY FUNCTION

**EXHIBIT D
FEE PROPOSAL**

**Hidalgo County Pct 2 Regional Linear Park Project
Work Authorization #4**

	MANHOURS										L.&G TOTAL HOURS	Total Line Item Cost
	Senior Project Manager	Senior Engineer	Project Engineer	Senior Engineering Technician	Senior Environmental Scientist	ROW Administrator	Admin / Clerical					
CONTRACT RATE (FY 2015)												
1. Environmental Document with TxDOT	\$ 218.04	\$ 180.66	\$ 133.94	\$ 93.45	\$ 152.63	\$ 105.91	\$ 62.30					\$ 152,400.02
2. Public Involvement for the project with stakeholders and 1 Public meeting	36	38	48		894		256					\$ 20,396.14
3. Archeological and Historical Research	30	43	60	74	145		46					\$ 24,997.15
4. Engineering, Technical Support at Public Meetings with Layouts, etc.	38	160	232	400			36					\$ 31,504.08
5. Schematic for Linear Park (Plan & Profile)	50	117	170	184								\$ 105,645.20
6. Schematic Design for Linear Park Tunnel Crossings at 4 Roadway Crossings (1 Rd., Ridge Rd., E. Moore Rd., and US 281) To be approved by County & TxDOT	38	82	110	173								\$ 72,003.82
7. Schematic Design for Linear Park Bridges at 2 Irrigation Crossings & 1 Drainage Ditch Crossing for TxDOT, Drainage District & Irrigation District Approval	8	31	45	63			28					\$ 53,999.89
8. Office Surveys for Schematic (Pre-Ownership Identification and Property Rights)	10	26	44	56								\$ 21,003.83
9. Preliminary Compensable Utilities Identification on Schematic	20	44	70	89								\$ 18,004.12
10. Update Schematic based on comments provided by TxDOT/FHWA for schematic and EA update w/ FHWA	6	10	16	28			18					\$ 30,002.69
11. Engineering, Technical Support at Public Hearing with Layouts, etc.	28	56	78	1067	1039	0	470					\$ 8,995.88
12. Public Involvement for 1 Public Hearing	254	607	873									\$ 30,594.30
Subtotal Hours												\$ 569,547.12

Grand Total \$ 569,547.12