

AI-52609

Purchasing Department 22. D. 3.

CC - REGULAR

**Meeting Date:** 12/15/2015

**Submitted By:** Norma Ceballos, COMM. PCT. #3

**Department:** COMM. PCT. #3

Information

**CAPTION**

a. Acceptance and approval to execute the final form of a Professional Engineering Agreement with L&G Consulting Engineers, Inc. dba L&G Engineering, for "South Detention Basin" project as approved for negotiations on CC 12-01-15.

b. Acceptance and approval of Work Authorization #1 (with a estimated cost of \$255,005.10) as submitted by project engineer, L&G Engineering for, "South Detention Basin" Engineering Services required for Construction Management Services, Construction Inspection and Construction Material Testing for the South Detention Basin project" located in Pct #3 through Contract #

**BACKGROUND**

Fiscal Impact

**FISCAL YEAR:** 2015

**ACCT. #:** 5-1347-431-00-123-117-0-723

**FUNDS AVAILABLE Y/N?:** Y

**MATCHING FUNDS Y/N?:** N

**BUDGETARY IMPACT:**

Funds available as of 12/11/15.

Attachments

Contract

Work Authorization

Legal Approval

C

**Form Review**

<b>Inbox</b>	<b>Reviewed By</b>	<b>Date</b>
Purchasing Department	Darlene Betancourt	12/10/2015 04:53 PM
Budget & Management	Veronica Ortiz	12/11/2015 08:23 AM
Glinda Pacheco	Glinda Pacheco	12/11/2015 02:49 PM
Auditor's Office	Monica Badillo	12/11/2015 05:44 PM
Form Started By: Norma Ceballos		Started On: 12/09/2015 03:24 PM
Final Approval Date: 12/11/2015		

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-15-426-12-15**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 1**

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 Engineering Services required for Construction Management Services, Construction Inspection and Construction Material Testing for the South Detention Basin 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 \$255,005.10. 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. 1 shall be funded through funding source:

Account No. 5-1347-431-00-123-117-0-723

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. 1.

HIDALGO COUNTY  
COMMISSIONER PRECINCT NO. 3

BY: *Joe Flores*

**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

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

THE OWNER:  
HIDALGO COUNTY

*Ramon Garcia*  
By: Ramon Garcia,  
County Judge

ATTEST:  
*Arturo Guajardo Jr.*  
By: Arturo Guajardo, Jr., County Clerk

APPROVED BY  
COMMISSIONERS' COURT  
ON: 12/15/15

**LIST OF EXHIBITS**

- Exhibit A - Services to be provided by Owner
- Exhibit B - Services to be provided by Engineer
- Exhibit C - Work Schedule
- Exhibit D-1 - Estimated Man-hour Breakdown

**EXHIBIT "A"**  
**SCOPE OF SERVICES TO BE PROVIDED BY THE OWNER**

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The following provides an outline of the services to be provided by the **Owner** in the development of the South Detention Basin located within 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 **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**

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**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: N/A

PROJECT/DESCRIPTION: Construction Management Services, Construction Inspection and Construction Material Testing for the South Detention Basin Project

LENGTH: Approx. 0.5 Miles

HIGHWAY: N/A

LIMITS: Approx. 0.1 Miles South of US Expressway 83 to  
Approx. 0.6 Miles South of US Expressway 83

**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)
- Other (Detention Pond)

ENGINEER shall mean L&G Engineering.

STATE shall mean Texas Department of Transportation.

COUNTY shall mean Hidalgo County.

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

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**CONSTRUCTION PHASE SERVICES**  
(Function Code 320)

Services  
Provided By:  
ENGINEER COUNTY

YES    NO    **CONSTRUCTION MANAGEMENT SERVICES:**

The ENGINEER will provide engineering, geotechnical testing and support services for and during the construction of the Project or portions of the Project approved by the COUNTY. Specific (basic and special) services for CONSTRUCTION MANAGEMENT AND SUPPORT by the ENGINEER will include the following:

YES    NO    **Construction Bidding:**

- 1) The ENGINEER will furnish the COUNTY the necessary copies of approved plans, specifications, notices to bidders, and proposals as prepared under PS&E.
- 2) The ENGINEER will assist the COUNTY on the tabulation of bids, recommendations to the Owner as to the proper action on all bid proposals received, and the preparation of formal contract documents for the award of each construction contract.

YES    NO    **Construction Contract Administration and Inspection:**

- 3) In general, the ENGINEER will provide the management and engineering support/data required for consultation and advisement to the COUNTY and act as the COUNTY's representative as provided in the General Condition of the Construction Contract.
- 4) The ENGINEER will coordinate and conduct a pre-construction conference (if required).
- 5) Defects and Deficiencies. The ENGINEER will use his best efforts to protect the COUNTY against defects and deficiencies in the work of the Contractor. The ENGINEER will promptly notify the COUNTY of any such defect or deficiency, and take all steps possible to require the Contractor to correct the defect or deficiency.
- 6) Contractor Payment. The ENGINEER will review quantities as submitted by the Contractor and will coordinate with the COUNTY for the preparation of the monthly and final estimates for payment to the Contractor.
- 7) The ENGINEER will provide Project site inspection of the authorized construction contract as follows:
  - a) Project Engineer. The ENGINEER will provide visits by the Project Engineer or a competent representative of the ENGINEER to the site of construction for the purpose of monitoring the Contractor's progress and conformance to the construction contract plans and specifications.
  - b) Resident Engineer and/or Construction Inspector(s). The ENGINEER will furnish the services of a Resident Engineer and/or Construction Inspector(s) for on the site inspection construction to monitor/inspect the Contractor's daily progress and conformance to TxDOT's PS&E and/or Project specifications.

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

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Services  
Provided By:  
ENGINEER COUNTY

YES      NO      **Miscellaneous Technical Activities:**

- 8) Shop Drawings. The ENGINEER will review and check all shop or working drawings furnished by the Contractor.
- 9) Control of Materials & Equipment. The ENGINEER will provide inspection of all materials and equipment furnished/used by the Contractor as follows:
  - a) Review and record all laboratory, shop and mill tests of materials and equipment for compliance with the construction contract specifications.
  - b) Observe and/or perform Project record testing and/or independent assurance testing as outlined in the construction contract specifications.
- 10) Change Orders. When applicable the ENGINEER will prepare the engineering data, including plan sheet drawings, specifications, and estimates, for the preparation of construction contract change orders, which may be required due to actual field conditions encountered or new requirements directed by the COUNTY.
- 11) Final Acceptance. Following the completion of Construction by the Contractor, the Engineer will provide the services required for the final inspection and recommendation for project acceptance. This will include coordinating the activities required for the inspection for conformance and recordkeeping of the necessary performance tests required by the construction contract specification. The ENGINEER will also review and approve all as-built drawings (to show the work as actually constructed) and furnish to COUNTY three sets (3) of prints of the as-built drawings.

YES      NO      **CONSTRUCTION MATERIAL TESTING:**

The ENGINEER will provide the COUNTY with construction material testing services for the Project. The services to be provided include sampling and testing of all construction materials as required by the project plans and specifications. All sampling frequencies and test procedures will be performed in general accordance with the Texas Department of Transportation TEX methods (or ASTM methods as required) as outlined in the Guide Schedule for Sampling and Testing (latest) or as otherwise dictated on Project Specifications. The construction material testing includes, but is not limited to the following:

- (a) Sampling and laboratory testing of soils and base materials proposed for use in the construction of Project (Roads/Bridges/Misc.) to determine compliance of these materials with project plans and specifications.
- (b) Field density testing of soils and base materials to ensure proper compaction as required by project plans and specifications.
- (c) Field sampling and testing of fresh concrete, and laboratory testing of hardened concrete to determine compliance with project plans and specifications.
- (d) The ENGINEER will be responsible for concrete batching as well as the asphalt testing at the plants to insure delivery of acceptable material to the job site.
- (e) Concrete batching at the plant(s) to insure delivery of acceptable material to the job site (as required)
- (f) Any additional laboratory testing as required/requested by the COUNTY and the project plans and specifications.

**EXHIBIT "C"**  
**PROJECT SCHEDULE**  
 South Detention Basin

**WA#1 - Construction Management, Inspection and Material Testing for South Detention Basin Project**

TASK AND DESCRIPTION	2015												2016												2017				
	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	
Construction Management (Bidding Assistance, Advertising for Bids, Bid Accept.)																													
*Construction Inspection																													
*Construction Material Testing																													

 L&G Engineering (Lined Overprint signifies probable Bid Advertising & Selection)  
 Hidalgo County

\*Construction Time is estimated on this exhibit at approx. 12 months. This is only an estimate and Construction Inspection & CMT will be provided throughout the entirety of the actual Construction Time for the Project.

**EXHIBIT D  
FEE PROPOSAL**

**South Detention Basin  
Work Authorization #1**

South Detention Basin Project Construction Management, Inspection & Construction Materials Testing		MANHOURS					L&G TOTAL HOURS	Total Line Item Cost
		Senior Project Manager	Project Engineer	Project Inspector (V)	Project Inspector (I)	Admin / Clerical		
<b>CONTRACT RATE (FY 2015)</b>		<b>\$211.40</b>	<b>\$129.86</b>	<b>\$84.56</b>	<b>\$66.44</b>	<b>\$60.40</b>		
1	Construction Management (Bidding Assistance, Contract Admin, etc.)	138	87			75	300	\$ 45,001.02
2	Construction Inspection			633	1630	301	2564	\$ 180,004.08
3	Construction Material Testing							\$ 30,000.00
	<b>Subtotal Hours</b>	<b>138</b>	<b>87</b>	<b>633</b>	<b>1630</b>	<b>376</b>	<b>2864</b>	<b>\$ 255,005.10</b>

**Grand Total           \$       255,005.10**