

## Solicitation 07248-11

# Engineering Services, GeoTech & Materials Testing for Roads & Building Construct



Collin County

## Bid 07248-11

### Engineering Services, GeoTech & Materials Testing for Roads & Building Construct

Bid Number	07248-11
Bid Title	Engineering Services, GeoTech & Materials Testing for Roads & Building Construct
Bid Start Date	In Held
Bid End Date	Aug 11, 2011 2:00:00 PM CDT
Question & Answer End Date	Aug 5, 2011 7:00:00 AM CDT
Bid Contact	Sara Hogle CPPB Contract Administrator Purchasing Department 972-548-4104 shogle@co.collin.tx.us
Contract Duration	One Time Purchase
Contract Renewal	Not Applicable
Prices Good for	30 days
Standard Disclaimer	<p>***Note to Bidders/Offerors~The following standard disclaimer applies to Invitation to Bid (IFB), Competitive Sealed Proposal (CSP), and Request for Proposal (RFP) ONLY, not applicable to Request for Qualifications (RFQ) or Request for Information (RFI).***</p> <p>Prices bid/proposed shall only be considered if they are provided in the appropriate space(s) on the Collin County bid form(s). For consideration, any additions or deductions to the bid/proposal prices offered must be shown under the exceptions section of the bid/proposal in the case of electronic submittal, ONLY in the case of a hard copy submittal will an additional attachment be allowed. Extraneous numbers, prices, comments, etc. or bidder/offeror generated documents appearing elsewhere on the bid or as an additional attachment shall be deemed to have no effect on the prices offered in the designated locations.</p> <p>All delivery and freight charges (F.O.B. inside delivery at Collin County designated locations) are to be included as part of the bid/quote/proposal price. All components required to render the item complete, installed and operational shall be included in the total bid/quote/proposal price. Collin County will pay no additional freight/delivery/installation/setup fees.</p>
Bid Comments	Collin County is soliciting information from qualified Testing Services Engineers for various types of services and testing that may be required on existing and upcoming County projects to include Road and Bridge Construction and County Facility construction testing. The firm will be selected based upon qualifications and firm's ability to respond. Selected firm(s) shall perform such services as set forth and described. It is the intent of Collin County to select a firm specializing in Road and Bridge Construction material testing and a second firm specializing in Facility Construction Testing. Selected firms must have ability to respond to County's need for testing requirements without delay for purpose of maintaining integrity of project schedules.

Item Response Form

Item **07248-11-01-01 - PLEASE UPLOAD YOUR RFQ RESPONSE**

Quantity **1 each**

Prices are not requested for this item.

Delivery Location **Collin County**  
Collin County- See P.O.  
See P.O. for Delivery Location  
2300 Bloomdale Rd.  
Ste. 3160  
McKinney TX 75071  
**Qty 1**

**Description**

PLEASE UPLOAD YOUR RFQ RESPONSE



**COLLIN COUNTY, TEXAS**

**REQUEST FOR QUALIFICATIONS**

**FOR ENGINEERING SERVICES: GEOTECH AND MATERIALS TESTING  
FOR ROADS AND BUILDING CONSTRUCTION**

**SUBMIT QUALIFICATIONS  
TO:**

**Collin County Purchasing  
Attn: Sara Hoglund, CPPB  
Collin County  
Administration Building  
2300 Bloomdale, Suite 3160  
McKinney, Texas 75071**

**\*\*NOTE:**

**All correspondence must include suite  
number to assist in proper delivery.\*\***

**SUBMIT NO LATER THAN:**

**2:00 P.M., Thursday, August 11, 2011**

**MARK ENVELOPE:**

**RFQ No. 07248-11  
ENGINEERING SERVICES,  
GEOTECH & MATERIALS  
TESTING FOR ROADS AND  
BUILDING CONSTRUCTION**

***ALL SUBMITTALS MUST BE RECEIVED IN THE PURCHASING DEPARTMENT  
BEFORE RECEIVING DATE AND TIME***

If offeror does not wish to submit qualifications at this time, please submit a "NO OFFER" by the same time and at the same location as stated above and state the reasons for such.

Offerors must submit this RFQ, their response, the signature page, and all additional documents. Responses can be submitted via [www.bidsync.com](http://www.bidsync.com) or manually. If manually please provide one (1) original and Four (4) copies of all documents in a sealed envelope and manually signed in ink by a person having the authority to submit firm's qualifications.

Negotiations should begin not more than fourteen (14) days after receiving date.

Collin County is always conscious and extremely appreciative of your time and effort in the preparing of this information. Requests for information/clarification should be directed to:

Sara Hoglund, CPPB  
Contract Administrator  
Purchasing Department  
Administration Building  
2300 Bloomdale, Suite 3160  
McKinney, TX 75071  
Telephone: 972/548-4104 or;  
Metro: 972/424-1460 ext. 4103  
Facsimile: 972/548-4694  
E-Mail : [shoglund@co.collin.tx.us](mailto:shoglund@co.collin.tx.us)

**1.0 GENERAL:**

Collin County is soliciting information from qualified Testing Services Engineers for various types of services and testing that may be required on existing and upcoming County projects to include Road and Bridge Construction and County Facility construction testing. The firm will be selected based upon qualifications and firm's ability to respond. Selected firm(s) shall perform such services as set forth and described. It is the intent of Collin County to select a firm specializing in Road and Bridge Construction material testing and a second firm specializing in Facility Construction Testing. Selected firms must have ability to respond to County's need for testing requirements without delay for purpose of maintaining integrity of project schedules.

Collin County will enter into a contract for one (1) year beginning October 1, 2011 through September 30, 2012 with the option of two (2) one (1) year renewals.

Delivery times for services will be discussed prior to each project and if the agreed delivery times are not met, Collin County reserves the right to go elsewhere for Testing services.

**2.0 SCOPE OF SERVICES – ROAD AND BRIDGE:**

Collin County will need various amounts and types of construction materials testing (laboratory and field) and quality control inspections to include, but not limited to the following categories:

- 2.1 Soils:
  - 2.1.1 Atteberg limits
  - 2.1.2 Proctors
  - 2.1.3 Moisture-Density Relationships
  - 2.1.4 Lime series
  - 2.1.5 Gradations
  - 2.1.6 On site inspections
- 2.2 Subgrade, Preparations, Base Material, Test & Inspections:
  - 2.2.1 Material Acceptance Test
  - 2.2.2 Moisture- Density Relationship
  - 2.2.3 Field Density Test
  - 2.2.4 On site Inspections
- 2.3 Concrete:
  - 2.3.1 Material Acceptance Test
  - 2.3.2 Mix designs & conformations
  - 2.3.3 Field testing
  - 2.3.4 Sampling for slump
  - 2.3.5 Air entrainment
  - 2.3.6 Unit weight

- 2.3.7 Compressive strengths
- 2.3.8 Flexural strengths
- 2.3.9 Cores
- 2.4 Nondestructive Testing (Upon Request Only):
  - 2.4.1 Shop-Penetrant
  - 2.4.2 Field-Ultrasonic and Penetrant
- 2.5 Other Test & Inspections:
  - 2.5.1 Drilled Pier Inspection
- 2.6 The above listing must not be taken as all inclusive regarding test and procedures. Additional information or tests beneficial to the project should be noted in the information submittal. The final and actual specification sections and work may vary.

### **3.0 QUALIFICATIONS – ROAD AND BRIDGE:**

3.1 Collin County will consider the qualifications of offeror's personnel to provide services in accordance with applicable standards such as those outlined by:

- 3.1.1 ANSI
- 3.1.2 ASTM
- 3.1.3 ACI
- 3.1.4 AWS
- 3.1.5 Manual of testing procedures published by the Texas State Highway Department

### **4.0 TECHNICAL BASIS – ROAD AND BRIDGE:**

#### 4.1 SOILS TESTING AND INSPECTION

- 4.1.1 Compaction density test:
  - 4.1.1.1 Standard Proctor, ASTM-D698
  - 4.1.1.2 Frequency of testing:
    - 4.1.1.2.1 Compaction density testing as required by Engineer
    - 4.1.1.2.2 A minimum of one compaction density test per lift.
- 4.1.2 Construction material minimum standards:
  - 4.1.2.1 Texas State Department of Highways and Public Transportation, "Standard Specifications for Construction of Highways, Streets and Bridges, 1993, 1995 and 2004," as amended to date.

<b>5.0 SCOPE OF SERVICES – FACILITY CONSTRUCTION</b>
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5.1 Collin County will need various amounts and types of construction materials testing (laboratory and field) and quality control inspections to include, but not limited to the following categories:

- 5.1 Soils:
  - 5.1.1 Atteberg limits
  - 5.1.2 Proctors
  - 5.1.3 Moisture-Density Relationships
  - 5.1.4 Lime series
  - 5.1.5 Gradations
  - 5.1.6 On site inspections
- 5.2 Subgrade, Preparations, Base Material, Test & Inspections:
  - 5.2.1 Material Acceptance Test
  - 5.2.2 Moisture- Density Relationship
  - 5.2.3 Field Density Test
  - 5.2.4 On site Inspections
- 5.3 Concrete:
  - 5.3.1 Material Acceptance Test
  - 5.3.2 Mix designs & conformations
  - 5.3.3 Field testing
  - 5.3.4 Sampling for slump
  - 5.3.5 Air entrainment
  - 5.3.6 Unit weight
  - 5.3.7 Compressive strengths
  - 5.3.8 Flexural strengths
  - 5.3.9 Cores
- 5.4 Nondestructive Testing (Upon Request Only):
  - 5.4.1 Shop-Penetrant
  - 5.4.2 Field-Ultrasonic and Penetrant
- 5.5 Other Test & Inspections:
  - 5.4.3 Drilled Pier Inspection

5.6 The above listing must not be taken as all inclusive regarding test and procedures. Additional information or tests beneficial to the project should be noted in the information submittal. The final and actual specification sections and work may vary.

<b>6.0 QUALIFICATIONS – FACILITY CONSTRUCTION:</b>
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Collin County will consider the qualifications of offeror's personnel to provide services in accordance with applicable standards such as those outlined by:

- 6.1 ANSI

- 6.2 ASTM
- 6.3 ACI
- 6.4 AWS

<b>7.0 SUBGRADE AND BASE MATERIAL TESTING AND INSPECTION – FACILITY CONSTRUCTION</b>
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7.1 Items included in test/inspections: Items which will require testing/inspection under this section will include:

- 7.1.1 Compaction testing of subgrades for building
- 7.1.2 Compaction density test:
  - 7.1.2.1 Standard Proctor, ASTM-D698
  - 7.1.2.2 Frequency of testing:
    - 7.1.2.2.1 Compaction density testing as required by Engineer.

## 7.2 CONCRETE TESTING AND INSPECTION

7.2.1 Items included in test/inspections: Items which will require testing/ inspection under this section will include:

- 7.2.1.1 Concrete for miscellaneous site improvements and utilities.
- 7.2.1.2 All concrete foundations (including drilled piers).
- 7.2.1.3 All structural concrete in building.
- 7.2.2 Testing standards:
  - 7.2.2.1 ASTM-C30: Compressive strength of cylindrical concrete specimens.
  - 7.2.2.2 ASTM-C31: Making and curing concrete test specimens in the field.
  - 7.2.2.3 ASTM-C42: Obtaining and testing drilled cores and sawed beams of concrete.
  - 7.2.2.4 ASTM-C109: Test of compressive strength of Hydraulic Cement Mortars.
  - 7.2.2.5 ASTM-C138: Test for unit weight, yield and air content (Gravimetric) of concrete.
  - 7.2.2.6 ASTM-C143: Test for slump of Portland Cement concrete.
  - 7.2.2.7 ASTM-C173: Test for air content of freshly mixed concrete by the Volumetric method.
  - 7.2.2.8 ASST.-C192: Making and curing concrete test specimens in the Laboratory.
  - 7.2.2.9 ASST.-C231: Test for Air content of freshly mixed concrete by the pressure method.
  - 7.2.2.10 ASST.-E329: Inspection and testing agencies for concrete, steel and Bituminous material as used in construction.
  - 7.2.2.11 ACE 318: Building code requirements for reinforced concrete.

### 7.3 FREQUENCY OF TESTING

Per applicable ACE or other governing code requirements. Please specify frequency assumptions in your submittal.

### 7.4 TESTING CONCRETE IN PLACE

7.4.1 Testing impact hammer, sonoscope or other nondestructive device: Such tests shall be used to determine relative strengths at various locations in structure as an aid for selecting areas to be cored. Such test, unless properly calibrated and correlated with other test data, will not be used as a basis for acceptance or rejections.

7.4.2 Core test: (As requested by the Architect/Engineer) Obtain and test largest practical diameter cores ( 2 in (50mm) minimum), in accordance with ASTM-C42. If concrete in structure will be dry under service conditions, air dry cores (temperature 60 to 80 deg F.) (16 to 26 deg C.) relative humidity less than 60 percent for seven (7) days before test. Test dry. If concrete in structure will be more than superficially wet under service conditions, test cores after moisture conditioning.

7.4.2.1 Take at least three (3) representative cores from each member or area of concrete in place that is considered potentially deficient. Location will be determined by Architect/ Engineer.

### 7.5 DRILLED PIER INSPECTIONS

7.5.1 Items included in test/inspections: Items which will require testing/inspections under this section will include:

7.5.1.1 Visual inspection of pier hole bottoms to confirm condition and adequacy of bearing strata.

7.5.1.2 Testing of drilled pier concrete is to be included above.

## **8.0 QUALIFICATIONS SUBMITTAL FORMAT**

The qualifications submittal shall be divided into tabbed, marked sections and shall include but not limited to information for each of the following:

### **RESPONDENT'S STATEMENT OF QUALIFICATIONS AND AVAILABILITY TO UNDERTAKE PROJECTS (Maximum of two (2) printed pages per question)**

- 8.1 Provide a statement of interest including a narrative describing the Prime Firm's unique qualifications as they pertain to this request.
- 8.2 Provide a statement on the availability and commitment of the Prime Firm assigned principal(s) and professionals to undertake projects.

- 8.3 Provide a brief history of the Prime Firm including when the firms were established, type of ownership and office locations. If more than one office is listed indicate the office that will manage the project. If the firm has changed name or ownership with in the last three (3) years indicate the former name.
- 8.4 Provide a listing of number of professional staff by discipline located in the office that will manage projects.
- 8.5 Provide an Organization Chart for the team proposed for projects.
- 8.6 Provide resumes of key personnel from the Prime Firm who will be assigned to projects. Resumes limited to two (2) pages per person.

### **PRIME FIRM'S ABILITY TO PROVIDE SERVICES**

- 8.7 Is your company currently for sale or involved in any transaction to expand or to become acquired by another business entity? If yes, please explain the impact both in organizational and directional terms.
- 8.8 Provide any details of all past or pending litigation or claims filed against your company that would affect your company's performance under a Contract with the Owner.
- 8.9 Is your company currently in default on any loan agreement or financing agreement with any bank, financial institution, or other entity? If yes, specify date(s), details, circumstances, and prospects for resolution.
- 8.10 Does any relationship exist by relative, business associate, capital funding agreement, or any other such kinship between your firm and any Owner employee or elected official? If so, please explain.
- 8.11 Provide a claims history under professional malpractice insurance for the past five (5) years for the Prime Firm and any team members proposed to provide professional architectural or engineering services.

### **RESPONDENT'S PERFORMANCE ON PAST REPRESENTATIVE PROJECTS**

- 8.12 List a maximum of five (5) projects for which you have provided services that are most related to this project. List the projects in order of priority, with the most relevant project listed first. For all consultants are named in the response indicate the projects they also worked on. Provide the following information for each project listed:
  - 8.12.1 Project name, location and description
  - 8.12.2 Final project size in gross square feet

- 8.12.3 Type of construction (new, renovation, or expansion)
- 8.12.4 Description of professional services Prime Firm provided for the project
- 8.12.5 Name of Project Manager (individual responsible to the Owner for the overall success of the project)
- 8.12.6 References (for each project listed above, identify the following):
  - 8.12.7.1 The Owner's name and representative who served as the day-to-day liaison during the design and construction phases of the project, including telephone number
  - 8.12.7.2 Contractor's name and representative who served as the day-to-day liaison during the Preconstruction and/or construction phase of the project, including telephone number
  - 8.12.7.3 Length of business relationship with the Owner.

References shall be considered relevant based on specific project participation and experience with the Respondent. The Owner may contact references during any part of this process. The Owner reserves the right to contact any other references at any time during the RFQ process.

### **RESPONDENT'S KNOWLEDGE OF BEST PRACTICES**

- 8.13 Describe the Prime Firm's design philosophy.
- 8.14 Describe the Prime Firm's quality assurance program. Provide specific examples of how these techniques or procedures were used for any combination of three (3) projects listed in response to 8.12.
- 8.15 Describe the way in which your firm develops and maintains work schedules to coordinate with the Owner's project schedule. For any combination of three (3) projects listed in response to Criteria 8.12, provide examples of how these techniques were used.
- 8.16 Describe the types of records, reports, monitoring systems, and information management systems, which your firm used in the management of the projects listed above. Describe how you used these systems for any combination of three (3) projects listed in response to 8.12.

### **RESPONDENT'S ABILITY TO IDENTIFY AND RESOLVE PROBLEMS ON PAST PROJECTS**

- 8.17 For any three (3) of the projects listed in response to 8.12, describe any conflicts with the Owner, Consultants, Contractor, or subcontractors, and describe the methods your firm used to resolve those conflicts.

<b>9.0 RANKING CRITERIA</b>
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The evaluation of professional qualifications of the Proposers will be based on the following criteria:

<b>DESCRIPTION</b>	<b>POINTS</b>
Statement of Qualifications and Ability to Undertake The Project – Proposed Personnel	20
Prime Firm’s Ability To Provide Services	10
Respondent’s Performance On Past Representative Projects	45
Respondent’s Knowledge Of Best Practices	10
Respondent’s Ability To Identify And Resolve Problems On Past Projects	10
Respondent’s Proposal Format	5
<b>TOTAL</b>	<b>100</b>

**10.0 FORMAT FOR STATEMENT OF QUALIFICATIONS****GENERAL INSTRUCTIONS**

- 10.1 Qualifications shall be prepared **SIMPLY AND ECONOMICALLY**, providing a straightforward, **CONCISE** description of the respondent's ability to meet the requirements of this RFQ. Emphasis shall be on the **QUALITY**, completeness, clarity of content, responsiveness to the requirements, and an understanding of Owner's needs.
- 10.2 Qualifications shall be a **MAXIMUM** of fifty (50) **PRINTED PAGES**. The cover, table of contents, divider sheets, and signature page do not count as printed pages.
- 10.3 Respondents shall carefully read the information contained in this RFQ and submit a complete response to all requirements and questions as directed. Incomplete qualifications will be considered non-responsive and subject to rejection.
- 10.4 Qualifications and any other information submitted by respondents in response to this RFQ shall become the property of the Owner.
- 10.5 The Owner will not compensate respondents for any expenses incurred in Qualifications preparation or for any presentations that may be made, unless agreed to in writing in advance or required by law. Respondents submit Qualifications at their own risk and expense.
- 10.6 Qualifications that are qualified with conditional clauses, alterations, items not called for in the RFQ documents, or irregularities of any kind are subject to rejection by the Owner, at its option.
- 10.7 The Owner makes no representations of any kind that an award will be made as a result of this RFQ, or subsequent RFP. The Owner reserves the right to accept or reject any or all Qualifications, waive any formalities or minor technical inconsistencies, or delete any item/requirements from this RFQ when deemed to be in Owner's best interest.
- 10.8 Qualifications shall consist of answers to questions identified in Section 8 of the RFQ. It is not necessary to repeat the question in the Qualifications; however, it is essential to reference the question number with the corresponding answer.
- 10.9 Failure to comply with all requirements contained in this Request for Qualifications may result in the rejection of the Qualifications.

**PAGE SIZE, BINDING, DIVIDERS, AND TABS:**

- 10.10 Qualifications shall be printed on letter-size (8-1/2" x 11") paper and GBC assembled.
- 10.11 Additional attachments shall NOT be included with the Qualifications. Only the responses provided by the respondent to the questions identified in Section 3 of this RFQ will be used by the Owner for evaluation.
- 10.12 Separate and identify each criteria response to Section 8 of this RFQ by use of a divider sheet with an integral tab for ready reference.

**TABLE OF CONTENTS:**

- 10.13 Submittals shall include a "Table of Contents" and give page numbers for each part of the Qualifications.

**PAGINATION:**

- 10.14 Number all pages of the submittal sequentially using Arabic numerals (1, 2, 3, etc.)

**11.0 SIGNATURE**

This execution of offer must be completed, signed, and returned with the respondent's qualifications. Failure to complete, sign and return this execution of offer with the qualifications may result in rejection of the qualifications. Signing a false statement may void the submitted qualifications or any agreements or other contractual arrangements, which may result from the submission of respondent's qualifications. A false certification shall be deemed a material breach of contract and, at owner's option, may result in termination of any resulting contract or purchase order.

**11.1 REPRESENTATIONS**

By signing below, Respondent represents and warrants that:

- 11.1.1 the Qualifications and all statements and information prepared and submitted in response to this RFQ are current, complete, true and correct;
- 11.1.2 it is not given, nor intends to give at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount trip, favor or service to a public servant in connection with the submitted Qualifications or any subsequent proposal. Failure to sign below, or signing a false statement, may void the Response or any resulting contracts at the Owner's option, and the Respondent may be removed from all future proposal lists at this County;
- 11.1.3 the individual signing this document and the documents made part of the RFQ is authorized to sign such documents on behalf of the Respondent and to bind the Respondent under any contract which may result from the submission of the Response;
- 11.1.4 no relationship, whether as a relative, business associate, by capital funding agreement or by any other such kinship exists between Respondent and an employee of Collin County, Texas
- 11.1.5 no compensation has been received for participation in the preparation of this RFQ (ref. Section 2155.004 Texas Government Code);
- 11.1.6 Respondent complies with all federal laws and regulations pertaining to Equal Employment Opportunities and Affirmative Action;
- 11.1.7 to the best of its knowledge, no member Collin County Commissioners' Court or Elected official has a financial interest, directly or indirectly, in the Project; and
- 11.1.8 each individual or business entity proposed by Respondent as a member of its team that will engage in the practice of engineering or architecture will be selected based on demonstrated competence and qualifications only.

- 11.2 REQUESTED DOCUMENTATION INCLUDED?
- 11.3 ORIGINAL AND FOUR (4) COPIES INCLUDED, NONE NEED IF SUBMITTING VIA WWW.BIDSYNC.COM?
- 11.4 ALL QUESTIONS ADDRESSED IN REQUIRED FORMAT?
- 11.5 COMPLETED SIGNATURE?

**TYPE OR PRINT:**

FIRM NAME	AUTHORIZED REPRESENTATIVE &
TITLE	
STREET ADDRESS and/or P.O. BOX NO.	PHONE:(    )
	A/C PHONE NUMBER
CITY/STATE/ZIP CODE	FAX: (    )
	A/C FAX NUMBER
FIRM'S TAX IDENTIFICATION NUMBER	E-MAIL ADDRESS

SIGNATURE	/
	DATE

## Question and Answers for Bid #07248-11 - Engineering Services, GeoTech & Materials Testing for Roads & Building Construct

### OVERALL BID QUESTIONS

There are no questions associated with this bid. If you would like to submit a question, please click on the "Create New Question" button below.