

**THE CITY OF CHATTANOOGA  
PUBLIC WORKS  
DEPARTMENT**



**REQUEST FOR PROPOSALS  
GROUND PENETRATING RADAR (GPR) & FALLING WEIGHT DEFLECTOMETER  
(FWD) TESTING FOR CITY OF CHATTANOOGA PAVEMENT MANAGEMENT  
SYSTEM (PMS)  
CONTRACT #E-07-015**

The City of Chattanooga Public Works Department (City) is requesting proposals from consultants to provide Ground Penetrating Radar (GPR) and Falling Weight Deflectometer (FWD) testing services to provide pavement layer thickness, and pavement and subgrade strength information for the City's pavement network, pavements in the anticipated growth zones, and other special projects (i.e. – approximately 1,600-center line miles). This information shall be used in developing accurate pavement performance prediction models for the City's pavement management system (PMS) and for evaluating future pavement structural requirements.

**PROPOSAL EVALUATION:**

Proposals shall be evaluated by the City based on the following:

1. Experience, references, and reputation in the field of services requested by the City. This will include qualifications of the individuals who will perform the tasks and the amounts of their respective participation.
2. Consultant's knowledge of the subject matter to be addressed under the contract.
3. Ability to perform the tasks in a timely fashion.
4. Recent, current and projected workload of the individual or firm.
5. Compensation proposal.
6. Thoroughness and completeness of the applicant's submittal.
7. Other factors if demonstrated to be in the best interests of the City.
8. Other specific criteria set forth in the requests for proposals which are unique to said requests for proposals.

Each of the above factors shall be graded on a 5-point scale, the sum of which shall comprise the composite score of each proposal. The proposals shall then be ranked by the composite score. The top three (3) proposals may be selected for interviews at the City's sole discretion. The City reserves the right to select any proposal regardless of ranking as determined by the review committee. Ranking is for the sole purpose of aiding the selection committee and shall not be the sole criteria for selection.

**SUBMISSION DETAILS:**

1. The City reserves the right to cancel this Request for Proposal for any reason without any liability to any proponent or to waive irregularities at their own discretion.
2. All proposals will remain confidential, subject to the Public Records Act.
3. The City anticipates that this contract will be awarded within 30 days of the closing date.
4. All Pricing shall be in U.S. Dollars.
5. Questions: All questions shall be submitted in writing by the end of business on November 8, 2007 to the following:

Ariel Soriano, PE  
Engineering Project Manager  
Pavements & Materials  
Phone: 423-643-6154  
Fax: 423-643-6008  
E-mail: [soriano\\_a@mail.chattanooga.gov](mailto:soriano_a@mail.chattanooga.gov)

**MINIMUM SUBMISSION INFORMATION:**

*This section describes certain minimum conditions that the City has determined necessary for this project and the proponent is expressly required to furnish information that meets or exceeds these minimum conditions.*

1. Name of the individual(s) to be assigned to perform the tasks.
2. FWD Strategic Highway Research Program (SHRP) calibration and certification.
3. Professional experience and education of the individual(s) to be assigned including a listing of experience with the City and /or experience with other clients.
4. A statement concerning the ability of the firm/individual to perform tasks assigned in a timely fashion.
5. Professional licenses and certifications held by the individual(s) to be assigned.
6. A description of the support staff available to the individual(s) to be assigned.

7. Certificates of Insurance issued by an insurance carrier licensed in the State of Tennessee in accordance with the City's Insurance Requirements (Attachment A).
8. If you intend to request an exemption from any of these requirements, please include such request with your submittal.
9. A list of four professional references with addresses and telephone contact numbers. Three must have direct knowledge relating to your experience in the requested services.

**SUBMISSION REQUIREMENTS:**

1. Five (5) copies of the proposal should be received no later than 4:00 pm, November 15, 2007.
2. Must be signed by the proponent and must be enclosed in a sealed envelope bearing the name and address of the submitter, the name of this RFP, and the RFP due date on the outside of the envelope.
3. Responses to this RFP shall be mailed to:

Mr. Ariel P. Soriano, PE  
Engineering Project Manager  
City of Chattanooga  
1250 Market Street, Suite 2100  
Chattanooga, TN 37402  
423-643-6154

4. The City will not be responsible for late mail deliveries and no responses to this RFP will be accepted by the City if received after the time stipulated above.

**SCOPE OF SERVICES:**

The Responder will collect and provide electronic files for the following:

1. Ground Penetrating Radar (GPR) data and pavement layer thicknesses for 100-percent of the City's existing pavement network, anticipated growth zone roadways, and special projects (i.e. – all lanes). This information shall be used to divide the pavement network branches into sections and pavement management sample units based on pavement structure. Further division based on traffic volume may be conducted depending on data availability.
2. Network-level Falling Weight Deflectometer (FWD) test data (i.e. – statistically-based selection and testing of PMS sample units per industry accepted protocols). This data shall be indexed to Tennessee's state plane coordinate system which is available from the City's GIS map.

For purposes of the RFP, the Responder shall base the project cost on compiling information on a time and materials basis. The City will coordinate with the Consultant on the exact number of

pavement management units to be tested and coordinate traffic control required to perform the deflection testing work within one (1) month after receiving the GPR results.

**DELIVERABLES:**

1. One (1) copy of monthly status report (i.e. – letter, memo, e-mail, etc.).
2. Three (3) hardcopy reports documenting data collection, post-processing of the GPR data, and summary of the data.
3. One (1) copy of all electronic files (i.e. – raw and post-processed data, photos, etc.)

**TIME SCHEDULE:**

1. GPR survey of the entire network within 2-months of the execution of agreement.
2. Network-level FWD testing within 4-months after completion of the GPR survey.

**METHOD OF REIMBURSEMENT:**

1. Reimbursement for services will be based on a time and materials basis which will cover all costs for labor, overhead, profit, plus non-salary expenses. Non-salary expenses are defined as indirect costs associated with transportation, telephone, reproduction, computer use, postage, subcontractor services, and all other similar out-of-pocket expenses.
2. Progress billings may be submitted based on percentage of work completed. A list of the hours spent by employees for each task and summary of work performed in the billing period shall be submitted to verify percentage of work completed. Non-salary costs can be submitted as a lump-sum amount. Receipts for indirect costs are not required.

**PROPOSAL FORM**

Provide Professional Services to perform the field work and develop deliverables in accordance with the requirements of this document.

TOTAL AMOUNT OF PROPOSAL \$ \_\_\_\_\_

In submitting this proposal, I understand that The City reserves the right to reject any and all proposals. The undersigned further agrees that this proposal is made in good faith and is not founded on, or in consequence of, any collusion, agreement or understanding between his or herself or any other interested party.

Firm Name:

Official Address:

Phone & Fax Number:

(P) –

(F) –

Name & Position of  
Principal:

Signature of Principal:

Date:

## Attachment A

### INSURANCE REQUIREMENTS

Consultant shall purchase and maintain during the life of this Agreement, insurance coverage which will satisfactorily insure him against claims and liabilities which arise because of the execution of this Agreement, with the minimum insurance coverage as follows:

1. Commercial General Liability Insurance, with a limit of \$1,000,000 for each occurrence and \$2,000,000 in the general aggregate.
2. Automobile Liability Insurance, with a limit of \$1,000,000 for each accident, combined single limit for bodily injury and property damage.
3. Worker's Compensation Insurance and Employer's Liability Insurance, in accordance with statutory requirements, with a limit of \$500,000 for each accident.
4. Professional Liability Insurance, with a limit of \$1,000,000 for each claim and aggregate.

Prior to issuance of the Notice to Proceed by Owner, Consultant shall have on file with Owner certificates of insurance acceptable to Owner. Said certificates of insurance shall be filed with Owner in January of each year or may be submitted with each agreement. Upon completion of all Services, obligations, and duties provided for in this Agreement, or if this Agreement is terminated for any reason, the terms and conditions of this section shall survive.

Notwithstanding any other provision of the Agreement, Owner waives any claim against Consultant and, to the maximum extent permitted by law, agrees to defend, indemnify, and hold Consultant harmless from any claim, liability, and/or defense costs for injury or loss arising from Consultant's discovery of unanticipated hazardous materials or suspected hazardous materials, including, but not limited to, any costs created by delay of the project and any cost associated with possible reduction of the property value.