

PENNSYLVANIA TURNPIKE COMMISSION

RETENTION OF AN ENGINEERING FIRM

Open End Contract
Geotechnical-Engineering Services
Systemwide

Reference No. 3-238

The Pennsylvania Turnpike Commission will retain an engineering firm for an Open-End Contract for various geotechnical-engineering services on various projects over the entire Turnpike system. This contract will be for a period of three (3) years or \$500,000.00, whichever occurs first.

The firm may be required to perform, but will not be limited to, the following geotechnical engineering services: review geotechnical work performed by private engineering firms; perform geotechnical design for Commission designed projects; prepare scopes of work; investigate slope movements and other geologic hazards for future programming; install and/or monitor geotechnical instruments; provide geotechnical consultation during and after construction; provide drilling inspection in accordance with PennDOT Design Manual Part 4 / Publication 293 qualifications and criteria; provide emergency response to geologic hazards; review and comment on Commission procedures and documents; investigate stability of retaining systems; develop specifications; prepare cost estimates; using DARWin software, prepare and review pavement designs; respond to requests from construction and maintenance for various types of investigations; perform stability analyses of slopes and retaining structures; prepare erosion and sedimentation plans; perform scour analyses and develop remedial solutions; perform settlement analyses and develop remedial solutions; review contour grading plans; review value engineering proposals; prepare prints and information required for a value engineering review; prepare geotechnical engineering reports; attend field views and prepare minutes; prepare submissions for field view meetings; perform field reconnaissance; plot topography and cross sections; and attend coordination and status meetings with Commission personnel and prepare meeting minutes.

In most cases, the Commission will provide drilling and sampling services through separate open-end drilling contracts. The Consultant may be required to inspect these operations or have a presence in the Commission's office to provide the necessary assistance required. The firm may be required to let separate contracts for drilling and will be required to have soil, rock and water testing capabilities including resilient modulus testing. The soil and rock testing must be performed at an AASHTO Materials Reference Laboratory (AMRL) accredited laboratory and the water testing must be performed at a Pennsylvania Department of Environmental Resources certified laboratory. Some tests may be required to be performed under a HASP.

The firm may be required to provide deep foundation geotechnical consultation services associated with drilled shaft design, construction, and testing. Testing methods should include, but are not limited to, deep foundation load testing, Crosshole Sonic Logging (CSL), and pile integrity testing. Demonstrate the ability to interpret the results of such testing to assist the Commission with identifying anomalies, defining flaws versus defects and make recommendations as to retesting, remediation, replacement, and/or redesign. This includes all aspects of Dynamic Pile Analysis: interpret the results of a Pile Driving Analyzer (PDA) to determine hammer performance and recommend driving criteria in the field. Exhibit a clear understanding of wave propagation theory including wave equation (WEAP) and bearing capacity (CAPWAP) software.

The firm may also be required to provide blast design consulting services focused on the optimization of blasting performance along with the mitigation of the negative impacts of blasting such as ground and air vibration. This work will include, but is not limited to, reviewing contractor's blasting plans, making site visits to areas on and off/adjacent to the Turnpike system, providing recommendations, consultation during construction, preparing legal agreements, and providing meeting documentation/minutes/video recordings when requested and/or required. Specialization is required in liability seismology, instrumentation design and software development. The objective of this service is to optimize blasting designs to mitigate vibration impacts, minimize/eliminate fly rock hazards, enhance rock fragmentation, improve slope stability and increase overall blast performance.

Environmental related work may include, but not be limited to, the following; perform geotechnical investigations under a Health and Safety Plan; develop Health and Safety Plans (HASP) for projects; develop remediation for acid mine drainage (AMD) problems; review preliminary area reconnaissance (PAR'S), initial site assessments (ISA'S), preliminary site investigations (PSI'S), detailed site investigations (DSI'S), and waste management plans.

The format and content of all documents, plans and specifications will be consistent with applicable State and Federal regulations and guidelines.

The geotechnical, geological and engineering services identified above are the general work activities that can be expected under this Open-End Contract. A more specific and project-related scope of work will be outlined for each individual Work Order developed under this Open-End Contract.

The Commission will consider the following factors in relative order of importance during the evaluation of the firms submitting Letters of Interest for these projects:

- a. Prime consultant and subconsultants specialized experience and technical competence in the requested geotechnical services. The Team must clearly demonstrate an ability to analyze available data, make decisions

and develop documents to complete projects in a timely and cost effective manner.

- b. Team's ability to meet staffing needs and ability to handle multiple assignments with short delivery schedules.
- c. Specific experience of key staff relevant to the requested services.
- d. Team's ability to provide specialized services such as blast design consultation and deep foundation testing.
- e. Past record of performance with respect to cost control, work quality, ability to meet schedules and previous experience on similar contracts; identify similar contracts managed by the firm as the prime, the magnitude of the contracts, and the clients.

Address these items and any necessary further details in a brief yet comprehensive manner in the letter of interest.

Questions and inquiries concerning this project should be directed to Mr. Kenneth M. Heirendt, P.G., Pennsylvania Turnpike Commission, Western Regional Office, at 724/755-5187 or by e-mail at kheirend@paturnpike.com. Direct contractual questions to Mr. Donald S. Klingensmith, P.E., at (717) 939-9551, Extension 5850; or by e-mail at dklingen@paturnpike.com.

GENERAL REQUIREMENTS AND INFORMATION

Firms interested in providing the above work and services are invited to submit a Statement of Interest with the required information. The Statements of Interest must include the following:

1. One page transmittal letter clearly identifying the project reference number, brief description of the project from the advertisement, the firm's federal identification number, the firm's legal name, contact person or project manager, address of corporate office and project office. (If the firm has multiple offices, the location of the office performing the work must be identified).
2. A three (3)-page expression of interest on the advertised project. Each firm should demonstrate their ability to perform the specific requirements indicated for each project and provide explanation of the technical approach.
3. An organization chart for the Project, identifying key personnel and any subconsultants and their roles. Any deviation from the subconsultants listed in the statement of interest will require written approval from the Commission.

4. Tabulation or listing of workload for the prime consultant and all subconsultants for all Pennsylvania Department of Transportation and Pennsylvania Turnpike Commission projects. Do not graphically represent the firm's workload.
5. A Consultant Qualification Package similar to the one submitted to the Pennsylvania Department of Transportation for the current year or one that is best suited for this project. A copy of the Consultant Qualification Package printed directly from PaDOT's ECMS website is acceptable.

The Consultant Qualification Package should contain, at a minimum, the following information for the prime consultant and all subconsultants and attached to the back of the statement of interest (subs to follow primes) The Consultant Qualification Packages should be kept as brief as possible. Only include pertinent information as it relates to the following:

- ECMS General Information and Project Experience Forms or Standard Form (SF) 254/255 or (SF) 330 Architect-Engineer and Related Services Questionnaire in its entirety, either not more than one (1) year old as of the date of the advertisement.
- Resumes of key personnel expected to be involved in the project. (Limit to three (3) 8 1/2 x 11 pages, per person). Only resumes of key personnel should be included.
- Copy of the firm's registration to do business in the Commonwealth as provided by the Department of State for firms with out-of-state headquarters or corporations not incorporated in Pennsylvania.
- A copy of the Department's DBE/MBE/WBE Certification, if applicable.

The Turnpike Commission is committed to the inclusion of disadvantaged, minority, and woman-owned firms in contracting opportunities. Responding firms shall clearly identify DBE/MBE/WBE firms, expected to participate in this contract, in their Statement of Interest. Proposed DBE/MBE/WBE firms must be certified by the Pennsylvania Department of General Services (www.dgs.state.pa.us) or the Pennsylvania Unified Certification Program (www.paucp.com) at the time of the submission of the Statement of Interest. Small, disadvantaged, minority, and woman-owned firms, and other firms who have not previously performed work for the Commission are encouraged to submit a statement of interest.

A firm that responds to this solicitation as a prime may not be included as a designated subconsultant to another firm that responds to the same solicitation. Multiple responses under any of the foregoing situations will cause the rejection of all responses of the firm or firms involved. This does not preclude a firm from being set forth as a designated subconsultant to more than one prime consultant responding to the project advertisement.

Firms interested in performing the above services are invited to submit six (6) copies of a Statement of Interest and required information to Mr. Donald S. Klingensmith, P.E., Manager of Contracts Administration, at the PA Turnpike Commission Administration Building. Our ground address for overnight/next-day deliveries is 700 South Eisenhower Boulevard, Middletown, PA 17057. Our mailing address for U.S. Mail is P. O. Box 67676, Harrisburg, PA 17106-7676. Please note that use of U.S. Mail, FedEx, UPS, or other delivery method does not guarantee delivery to this address by the time listed below for submission. Firms mailing a Statement of Interest should allow sufficient delivery time to ensure timely receipt of their Statement of Interest.

The statement of interest and required information must be received by 12:00 PM (noon), Local Time, **Thursday, June 21, 2012**. Any statements of interest received after this date and time will be time-stamped and returned.

Based on an evaluation of acceptable Statements of Interest received in response to this solicitation, two firms will be selected by the Commission from this advertisement. Technical Proposals will not be requested before the selection. Statements of interest will be reviewed, evaluated, and rated by a Technical Evaluation Team (TET) of qualified personnel based on the evaluation criteria listed above. The TET will present the evaluations to the Professional Services Procurement Committee (PSPC). The PSPC will review the TET's evaluation and provide the Commission with the firm(s) determined to be highly recommended for this assignment.

The Commission will select the most highly qualified firms for the assignment or the firms whose proposal is determined to be most advantageous to the Commission by considering the TET's evaluation and the PSPC's determination as to each firm's rating. In making the PSPC's determination and the Commission's decision, additional selection factors may be considered taking into account the estimated value, scope, complexity and professional nature of the services to be rendered and any other relevant circumstances. Additional selection factors may include, when applicable, the following: geographic location and proximity of the firm, firm's Pennsylvania presence or utilization of Pennsylvania employees for the assignment; equitable distribution of work; diversity inclusion; and any other relevant factors as determined as appropriate by the Commission.

The Commission may revise a published advertisement. If the Commission revises a published advertisement less than ten days before the Statement of Interest due date, the due date will be extended to maintain the minimum ten-day advertisement duration if the revision alters the project scope or selection criteria. Firms are responsible to monitor advertisements to assure the Statement of Interest complies with any changes in the published advertisement.

The Commission reserves the right to reject all statements of interest, to cancel solicitation requested under this notice, and/or to re-advertise solicitation for the work and services.

William K. Lieberman
Chairman