

**OHIO TURNPIKE AND  
INFRASTRUCTURE COMMISSION**

**REQUEST FOR PROPOSALS ("RFP")**

Geotechnical Services for the Pavement Replacement Program  
Project Sections at Various Locations on the Ohio Turnpike

The Ohio Turnpike and Infrastructure Commission ("Commission") has issued a RFP to select a qualified firm to provide the Professional Geotechnical Engineering Services necessary to support the design work associated with the Mainline Pavement Reconstruction Program. This work is being done as a result of recommendations presented in the Commission's 2009 "Mainline Pavement Evaluation" documents. The Selected Firm will perform the geotechnical services necessary to support the production of Construction Documents for bidding two Project Sections that are each five to six miles long and both consist of eastbound and westbound roadways in the fourth quarter of 2014. The Commission shall have the right to modify the Scope of Services with the Selected Firm to include additional Project Sections. However, any Contract awarded on the basis of this RFP shall not exceed ten (10) Project Sections. See the Draft Scope of Services enclosed as Exhibit A for the required services.

Any firm interested in submitting a Letter of Interest ("LOI") to respond to the RFP is invited to do so by **5:00 p.m. (EDT) on May 23, 2014**. LOI's should include general information as to why the Firm believes it is qualified to perform the services required for a project of this type (See Page 2 of this Notice for further details on content of the LOI). **One (1) original and three (3) copies of the LOI are required**. Once the Commission has reviewed the LOI's received, it will select several interested and qualified Firms to elicit sufficient responses to the RFP. Those Selected Firms will then be invited to submit a response to the RFP. The deadline for responses to the RFP is **5:00 p.m. (EDT) on June 27, 2014**.

Interested Firms are advised that, to be considered as a potential respondent to the RFP, a completed "Request For Qualifications" (RFQ) package for calendar years 2013-2014 must be on file with the Commission. The RFQ package may be obtained from the Commission's Procurement Manager, Kevin Golick.

Firms interested in receiving the RFP may request a draft copy from the Commission's Procurement Manager. Interested Firms may submit specific questions regarding the RFP and/or the LOI requirements. Any questions **shall** be addressed in writing and emailed to: [kevin.golick@ohioturnpike.org](mailto:kevin.golick@ohioturnpike.org), or faxed to **440-234-0232, Attn. Kevin Golick**. **Please do not contact the Commission by phone. Do not address your questions to anyone other than Mr. Golick**. The Inquiry Deadline is **5:00 p.m. (EDT) on June 19, 2014**. Answers to all questions will be compiled. A copy of each question and the Commission's response will be forwarded to Firms that so request via email (email address must be provided), and will also be posted on the Commission's Website, [www.ohioturnpike.org](http://www.ohioturnpike.org).

Emailed LOI's are not acceptable. LOI's must be submitted to the following address:

**Ohio Turnpike and Infrastructure Commission  
Attn.: Kevin Golick, Procurement Manager  
682 Prospect Street  
Berea, Ohio 44017**

**LETTER OF INTEREST CONTENT**  
**(Not to exceed ten (10) pages)**

1. List the types/categories of services for which your firm has a current Qualifications Statement on file with the Commission in response to the 2013/2014 RFQ
2. List significant subconsultants, their categories of service and the percentage of work to be performed by each proposed subconsultant.
3. List the Project Manager and other key staff members including key subconsultant staff. Address the experience of the key staff members on similar projects. Provide only the résumé of the proposed Project Manager. The proposed Project Manager must be a professional engineer registered in the State of Ohio.
4. Provide references from three (3) governmental organizations other than the Ohio Turnpike and Infrastructure Commission for similar geotechnical engineering projects completed in the past five (5) years. For each reference/project listed, provide a contact name and phone number.
5. Describe the capacity of your firm's staff and its ability to perform the work in a timely manner relative to present workload and the availability of assigned staff.
6. Provide a description of your Project approach, not to exceed two (2) pages. Confirm the firm's proposed technical approach, cost containment practices, innovative ideas for this type of project and any other relevant information concerning your firm's qualifications to perform the services contemplated.

Items 1-6 must be included in the LOI, which should not exceed ten (10) pages on single sided, 8 1/2" x 11" sheets of paper. To be considered, **one (1) original and three (3) copies of the LOI must be submitted no later than 5:00 p.m. (EDT) on May 23, 2014.**

**EXHIBIT A  
SCOPE OF SERVICES**

**Pavement Reconstruction Program  
Geotechnical Services**

**I. INTRODUCTION**

The Ohio Turnpike and Infrastructure Commission ("Commission") initiated the Pavement Reconstruction Program with a Mainline Pavement Evaluation Project in 2009 to evaluate the existing condition of the original concrete pavement on the Turnpike's 241.2 mile-long mainline roadway (the "2009 Pavement Evaluation") The 2009 Pavement Evaluation investigated the existing pavement, made recommendations for pavement reconstruction, and prioritized manageable sections for design and construction based on the pavement condition The results of the 2009 Pavement Evaluation are presented in the "Mainline Pavement Evaluation" dated September 25, 2009

This RFP seeks to select a qualified firm ("Geotechnical Engineer") to perform the Geotechnical Services necessary to assist the Engineering Design Firms prepare construction documents for two (2) Project Sections each year, beginning in 2014 for the 2015/2016 construction seasons. The Commission has retained two (2) Engineering Design Firms to provide the services necessary to design and produce Construction Documents for up to five (5) Project Sections each. The Commission anticipates completing the design on two (2) Project Sections annually, each consisting of approximately five (5) to six (6) miles of both eastbound and westbound roadway The Commission further anticipates that each Project Section will require two (2) construction seasons to complete construction of both the eastbound and westbound roadways The Commission intends to invite Bids on two (2) separate, two (2) year Project Sections annually, which will result in four (4) Project Sections being under construction each year, with two (2) of the Project Sections in the first year of construction, and two (2) of the Project Sections in the second year during each construction season.

The Commission has the option to award additional Project Sections to the Geotechnical Engineer's scope of services However, any agreement awarded on the basis of this RFP shall not exceed ten (10) Project Sections, and the Commission may request proposals at any time to obtain the Geotechnical Services of another qualified firm for additional Project Sections beyond the initial two (2) Project Sections awarded to the Geotechnical Engineer.

**II. SCOPE OF SERVICES**

This Scope of Services includes Geotechnical Services associated with the pavement reconstruction of the Eastbound and Westbound center lane, right lane and right shoulder for five (5) to six (6) mile sections as defined in the overall master plan.

The Geotechnical Engineer will provide Geotechnical Services including, but not limited to, the following:

- A. Master Planning** – Review, evaluate and update the 2009 Pavement Evaluation, as required by the Commission. These services shall include, but are not limited to, the following:
  - 1. Evaluate the current pavement rating parameters used in the original prioritization for use in reprioritization of the remaining reconstruction sections

2. Recommend pavement rating parameters and ranking system.
3. Recommend a frequency for updating pavement ratings, prioritizations, and the Master Plan.
4. Reprioritize, as necessary, the remaining Project Sections for reconstruction

**B. Pavement Design** - Provide pavement design typical sections for reconstruction using both asphalt and concrete pavement. Pavement design typical sections shall be in accordance with all Commission specifications and standard construction drawings and shall be based on using best industry practice design methodology.

**C. Subgrade Stabilization** - Provide recommendations for subgrade improvements for each Project Section. The Commission's current directive is utilization of a chemically stabilized subgrade. This design shall be in accordance with ODOT's Supplement 1120 – Mixture Design for Chemically Stabilized Soils. Furnish chemical stabilization specifications, including Plan Notes, specifying the required chemical application rate and quantities for inclusion in the Construction Documents for the Project Sections.

**D. Mainline Slope Failure** – The Engineering Firms designing and producing Construction Documents are required to conduct field investigations for the Project Sections. These investigation services include identifying all slope deficiencies and/or slope failures by sight. The deficiencies and failures identified will be provided to the Geotechnical Engineer for further investigation and remediation. These services shall include, but are not limited to, the following:

1. Conduct a field investigation of the areas identified as slope failures or deficiencies. Based on the field investigation, provide a proposed scope of services for further geotechnical testing and design.
2. Collect the required soil borings and perform the required laboratory testing.
3. Based on the laboratory testing, perform a slope stability evaluation and analysis of the existing slope.
4. Based on the slope stability analysis, prepare remediation drawings that implement the preferred design alternate. These drawings shall be provided for inclusion in bidding documents and shall include a typical section, general notes, specifications and the quantities required to remediate the slope.

**E. Post Construction Testing**

1. During the construction of each Project Section, collect data that reflects the as-built moduli of the pavement, base, and subgrade to be used in post-construction verification.
2. After construction of each Project Section, collect data for design performance verification using a Falling Weight Deflectometer apparatus to verify that the pavement structure and subgrade strengths meet or exceed the design criteria values.
3. Provide a design performance report to the Commission for each completed Project Section.

**F. Miscellaneous Geotechnical Tasks** - The Geotechnical Engineer shall provide other professional Geotechnical Services as required and/or requested by the Commission.