

PENNSYLVANIA TURNPIKE COMMISSION

RETENTION OF AN ENGINEERING FIRM

Deck and/or Superstructure Replacement of Mainline Bridges on the Northeast Extension Utilizing Accelerated Bridge Construction Methods

Reference No. 5-090

The Pennsylvania Turnpike Commission will retain an engineering firm to prepare bid package(s) for deck and/or superstructure replacement of mainline bridges on the Northeast Extension utilizing Accelerated Bridge Construction (ABC) techniques/methods. Turnpike bridges to be considered for ABC include the following four mainline bridges.

<u>Milepost</u>	<u>Bridge No.</u>	<u>Crossing Feature</u>
A-57.66	NB-355	over T-555 (Crackersport Road)
A-58.88	NB-360	over SR 309
A-59.20	NB-363	over T-559 (Huckleberry Road)
A-62.84	NB-376	over SR 4010 (Sand Spring Road)

The cartway width of the new bridge decks and/or superstructures is to be essentially the same as the existing bridges. Widening of these mainline bridges is not part of this project. The project will include the following three phases of work:

PHASE 1 – Alternatives Analysis

This phase will consist of reviewing all previous Turnpike investigations into ABC and expanding on those investigations by researching other transportation owners' and contractors' experiences with ABC concentrating on the duration or timeframes required and what traffic restrictions were implemented. The Alternatives Analysis Phase will also include an analysis of restrictions required by the Turnpike to facilitate the ABC methods as well as the impacts to side roads associated with the construction. These investigations will assist in determining feasible alternatives for ABC.

In addition, the Alternatives Analysis Phase will also provide comparative information by examining the pros and cons of the alternative delivery methods, such as Design-Bid-Build, Design-Build, etc.

The deliverable will be a letter report for each structure included in the contract, which summarizes the options, including sketches/plans and cost estimates, required traffic restrictions and durations, and will determine if multiple contract packages are necessary as well as the size of the contract(s). Consider the possible construction of multiple bridges in a single weekend closure in preparing the traffic control and superstructure replacement schemes.

PHASE 2 – Design

The second phase of this project will be to perform preliminary design. Develop options that minimize the need for environmental permits and permanent right-of-way impacts.

The primary focus of this phase will be to definitively determine the traffic control requirements and durations on the Turnpike and local roads to allow for the ABC as well as to finalize construction details between new and existing bridge elements (e.g., deck to superstructure connections or superstructure to substructure connections).

The deliverable will be a design submission completed to a preliminary or final level of design depending on the chosen contract delivery method (design-build or design-bid-build), a comprehensive list of pertinent specifications, and construction cost estimate(s).

This Design Phase will include the bid package preparation.

Prepare a construction schedule and determine a project completion date and any interim milestone dates. Coordinate with the Commission's Public Information representatives to assist in the development of a public information plan prior to bidding and construction to keep the general public as well as the Turnpike's customers apprised of the upcoming project(s).

The deliverable will be the complete set of bid documents, engineer's estimate, and construction schedule including completion date and any interim milestone dates.

Also included with this task is the review of bid tabs and the recommendation for award to the Commission's Chief Engineer.

PHASE 3 – Owner Support Services

The selected firm is to participate in the project development meetings and provide design submission reviews, constructability reviews, schedule reviews, and similar preconstruction tasks as-directed.

GENERAL REQUIREMENTS AND INFORMATION

Firms interested in providing the above work and services are invited to submit three (3) copies of 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, and address of corporate office and project office (if the firm has multiple offices, the location of the office performing the work must be identified). In addition, identify

the CADD format to be used on the project.

2. A maximum of five (5)-page statement of interest on the advertised project. Each firm should demonstrate its ability to perform the specific requirements indicated for this project and provide explanation of the technical approach. Furthermore, the Statement of Interest should clearly demonstrate the roles of each subconsultant and the extent that each subconsultant will be utilized.
3. An organization chart for the project, identifying key personnel and identifying all subconsultants and their specific assignments. Any deviation from the subconsultants listed in the Statement of Interest will require written approval from the Commission's Chief Engineer.
4. Tabulation or listing of workload for the prime consultant and all subconsultants for all Pennsylvania Department of Transportation and 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; especially ABC experience as well as CM/CI experience. A copy of the Consultant Qualification Package printed directly from the Department's ECMS website is acceptable.
6. Location of the firm's headquarters, a listing of all Pennsylvania offices and number of employees based in Pennsylvania offices.

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):

- ECMS General Information and Project Experience Forms or Standard Form (SF) 254/255 or 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) 8¹/₂ 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 firm's DBE/MBE/WBE Certification, if applicable.

The Turnpike Commission is committed to the inclusion of small, disadvantaged,

minority, and woman firms in contracting opportunities. The minimum participation level for DBE/MBE/WBEs in this contract will be 10%. Responding firms shall clearly identify in the Statement of Interest the DBE/MBE/WBE firms expected to participate in this contract and shall indicate the intent to maintain the minimum participation level throughout the life of the contract. Proposed DBE/MBE/WBE firms must be certified by the Pennsylvania Unified Certification Program (www.paucp.com) at the time of the submission of the Statement of Interest.

For guidance regarding Engineering Involvement Restrictions, see PennDOT Publication 93, Section 1.5. If a Joint Venture responds to a project advertisement, the Commission will not accept separate Statements of Interest from joint venture constituents. A firm will not be permitted to submit a Statement of Interest on more than one (1) joint venture for the same project reference number. Also, a firm that responds to a project as a prime may not be included as a designated subconsultant to another firm that responds to the same project advertisement. Multiple responses under any of the forgoing 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.

The following criteria are listed in order of importance and will be considered by the Commission's Technical Evaluation Team during the evaluation of the firms submitting a Statement of Interest for this project:

- a. Firm's understanding of the anticipated project specific issues and challenges.
- b. Firm's experience working on accelerated bridge construction projects or other relevant experience either as a prime or a subconsultant. The firm should identify similar projects that have been completed as well as the magnitude and client.
- c. Project Manager's experience and the experience of the key staff with accelerated bridge construction projects or other relevant design experience. Clearly indicate the project team members and the office location where the project will be managed from.
- d. The past record of performance on similar design projects with respect to cost effective solutions, work quality, ability to meet schedules, and construction cost estimating.
- e. Firm's ability and reasonableness of the firm's strategy to ensure a quality product. Provide discussion on the firm's QA/QC program and how the prime consultant will ensure the accuracy and completeness of all deliverables including oversight and management of subconsultants.

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

Questions and inquiries concerning this solicitation should be directed to Chad Smith, P.E. at (717) 831-7287, or by email at chsmith@paturnpike.com. Contractual questions should be directed to Mr. Donald S. Klingensmith, P.E. at (717) 831-7585, or by e-mail at dklingen@paturnpike.com.

Firms interested in performing the above services are invited to submit three (3) copies of a Statement of Interest and required information to Mr. Donald S. Klingensmith, P.E., Director 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 the Contracts Administration Department by the time listed below for submission. Firms mailing a Statement of Interest should allow sufficient delivery time to ensure timely receipt of its Statement of Interest.

The Statement of Interest and required information must be received by the Contracts Administration Department by 12:00 PM (noon), Local Time, **Thursday, November 14, 2013**. Any Statements of Interest received in the Contracts Administration Department after this date and time will be time-stamped and returned. A Statement of Interest submission that includes or considers a firm's cost as a factor will be disqualified.

Based on an evaluation of acceptable Statements of Interest received in response to this solicitation, one firm 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 firm for the assignment or the firm whose Statement of Interest 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 the work; diversity inclusion; and any other relevant factors as determined as appropriate by the Commission. For instance, the Commission reserves the right to require an oral presentation as part of the selection process.

The Commission may revise a published advertisement. If the Commission revises

a published advertisement or posts an addendum to this RFP 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 or addendum 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
Chairperson