

A REQUEST FOR PROPOSAL FOR PROFESSIONAL SERVICES CONTRACT

Department of Highways
Professional Services Procurement Bulletin 2020-04
Warren | 3-402 | I-65

This document constitutes a Request for Proposals for a Professional Service Contract from qualified individuals and organizations to furnish those services as described herein for the Commonwealth of Kentucky, Department of Highways.

I. PROJECT DESCRIPTION

County - Warren
Route - I-65
Item No. - 3-402.00
Project Description - Feasibility/Scoping Study for a new interchange on I-65 to increase connectivity and mobility in the southern portion of Warren County.

II. PROJECT INFORMATION

Project Manager - Stephen De Witte, P.E.
User Division - Division of Planning
District 3 Liaison - Benjamin Hunt, P.E.
Approximate Fee - \$350,000 (Lump Sum) Planning Study
Project Funding - Federal Funds (PL)
Project Length - Approximately 4.5 miles mainline

III. PURPOSE AND NEED

The purpose of his study is to determine if there is a need for an additional interchange on I-65 in the southern portion of Warren County; if so, to identify the optimal location for the new interchange between and including Carter Sims Road and KY 240 (Woodburn Allen Springs Road), and to determine what, if any, improvements or connections are needed to adjacent roadways.

Study goals are to increase mobility for all users, increase connectivity of southern Warren County with the interstate system, and quantify the benefits and costs of a new interchange.

Warren County is growing and is projected to continue growing. Much of the county's residential growth has occurred in the southern portion of Warren County, particularly in response to the construction of a new high school at US 31W (Nashville Road) and KY 242 (Richpond Road). Residential growth in the area has increased traffic on roadways unable to sustain the demand of the growing community, resulting in mobility issues. This need is described in part in the [Plano Road Corridor Plan and Policy Development Study](#) conducted for the Bowling Green-Warren County MPO in 2018.

IV. DBE REQUIREMENT

The Consultant team shall include a DBE Participation Plan with their Response to Announcement to help the Department meet the 11.95% DBE goal established by FHWA. The plan needs to demonstrate how DBE companies will be mentored or used to assist in the area(s) pertaining to this contract. An additional page will be allowed with the Project Approach (page 7) in the Response to Announcement to convey this plan. A maximum of 5 points will be considered in the Evaluation Factors for the DBE Participation Plan.

V. SCOPE OF WORK

The selected Consultant will be required to provide engineering services including, but not limited to:

- Draft purpose and need statement and identify project goals
- Collect, summarize and verify existing data to create an inventory of roadway items and possible constraints
- Gather and analyze crash data (incorporating HSM methodologies) and origin-destination data
- Provide traffic for the existing and future no-build and build scenarios.
- Conduct public and stakeholder involvement activities, including use of innovative techniques
- Develop Public Meeting Notebook
- Identify optimal location of a new interchange and improvements needed to adjoining roadways
- Quantify safety, mobility, economic, and/or other benefits associated with improvements.
- Provide planning-level cost estimates for all phases (D,R,U,C) and conduct planning-level benefit-cost analysis
- Environmental and Geotechnical overview
- Submit a summary of findings in a Final Report

This Project, or segment of this Project, may be advanced to include the completion of an Interchange Justification Study (IJS) by Contract Modification. The IJS document includes expected deliverables of preliminary interchange layouts and cost estimates (right-of-way, utilities, and construction). The document should show that the proposed changes in access are compliant with [FHWA's Interstate Access Policy](#). Any necessary improvements to the mainline interstate should also be included. Final approval of the IJS will be contingent upon NEPA approval.

This Project, or segment of this Project, may be advanced to Preliminary Engineering by Contract Modification. Preliminary Engineering may include the preparation of engineering studies, identification of appropriate typical sections, identifying any utility impacts, performing drainage design, developing dependable cost estimates, preparing documents for public meetings, and providing documents and/or plans to be used in an approved Environmental Document.

This Project, or a segment of this Project, may be further advanced to Final Design by contract modification when Preliminary Design is complete. If desired, the selected Consultant will then be asked to provide engineering services to perform Final Design, including the preparations of any design studies, drainage design, structure design, right of way plans, construction plans, traffic control plans, lighting plans, anticipated construction schedule, and cost estimates as necessary.

The Department also reserves the right to advertise the entire Project or parts thereof for an Interchange Justification Study, Preliminary Engineering, and/or Final Design.

VI. SPECIAL INSTRUCTIONS

The Department may retain any of the advertised services to be performed by in-house state forces.

Instructions for Response to Announcement can be found at:

<https://transportation.ky.gov/ProfessionalServices/Pages/Respond-to-an-Announcement.aspx>

KYTC will allow the following modifications to the standard response format for response to this project advertisement only:

- Page 3: Project Team Organizational Chart, may be expanded not to exceed two 8.5" x 11" pages (A-B) or one 11" x 17" page.
- Page 7 (A-C): Project Approach, as standard procedure, the DBE Participation Plan should also be included in this portion of the response with an additional page allowed.

VII. AVAILABLE STUDIES

[Plano Road \(KY 622\) Corridor Plan and Policy Development Study](#)

[3-130.00 Elrod Road/Natcher Parkway Interchange Study](#)

[Bowling Green - Warren County MPO 2016 - 2040 Metropolitan Transportation Plan \(MTP\)](#)

VIII. METHOD OF DESIGN

The selected Consultant shall utilize the most recent CADD Standards for Highway Plans Policy in the development of the highway plans.

IX. PHOTOGRAMMETRIC SERVICES

If photogrammetric information is not available for this project, the statewide LIDAR digital mapping is available for use.

X. GEOTECHNICAL SERVICES

Any necessary Environmental Services will be provided by the Consultant. An environmental overview with a red flag summary is expected to be included in the final report.

XI. GEOTECHNICAL SERVICES

A Geotechnical Overview will be provided by the Consultant.

XII. RIGHT-OF-WAY

The Consultant will be responsible for a planning-level estimate of Right-of-Way costs that will be reviewed by the Department for accuracy.

XIII. STRUCTURE DESIGN

The selected Consultant shall provide the necessary engineering services to determine needed improvements of the structures involved, if any. When the project advances to Final Design, and if the selected Consultant is retained for Final Design, they shall do the necessary engineering service to submit to KYTC an Advance Situation Folder(s) for the applicable structure(s). Structure Design Services may be added by Contract Modification. Prequalification in the area of Structure Design is required to be identified in the Consultant's Response to Announcement.

XIV. TRAFFIC

The Department's existing traffic counts will be supplemented by traffic data, traffic projections, and related information provided and collected by the Consultant.

XV. UTILITY DESIGN

The Consultant will be responsible for a planning level estimate of utility costs that will be reviewed by the Department for accuracy. In this or future phases, the Department will send project location maps to all potential Warren County utility contacts to determine whether they may have existing utilities within these project limits. The Department will develop the utility contact list. Facility atlas maps received for this project will be provided to the selected Consultant. The Consultant will then add the approximate locations to the manuscripts.

XVI. PREQUALIFICATION REQUIREMENTS

To respond to this project the Consultant must be prequalified in the following areas by the response due date of this advertisement:

Environmental & UST Services

- UST & Hazmat Preliminary Site Assessment (Phase 1)

Environmental Aquatic & Terrestrial Ecosystems Analysis

- Fisheries
- Botany
- Terrestrial Zoology
- Wetlands
- Freshwater Macroinvertebrates
- Water Quality

Environmental Archeology & Other Services

- Air Quality Analysis
- Prehistoric Archaeology
- Socio-Economic Analysis
- Highway Noise Analysis
- Historic Archaeology
- EIS Writing & Coordination
- Cultural-Historic Analysis

Geotechnical Services

- Engineering Services

- *Drilling Services (please see note below)*
- *Laboratory Testing Services (please see note below)*

Right of Way Services (please see note below)

- *Right of Way Relocation*
- *Right of Way Acquisition*

Roadway Design

- *Rural Roadway Design*
- *Urban Roadway Design*
- *Advanced Traffic Engineering Design & Modeling (please see note below)*
- *Surveying (please see note below)*

Structure Design

- *Spans Under 500*

Traffic Operations

- *Traffic Engineering Services*
- *Electrical Engineering Traffic Signal Services (please see note below)*

Transportation Planning

- *Traffic Forecasting*
- *Traffic Data Collection*
- *Transportation Corridor & Systems Planning*
- *Pedestrian / Bicycle Planning & Design*
- *Highway Planning Services*
- *Travel Demand & Simulation Modeling*

Utility Design Services (please see note below)

- *Electrical Level 1*
- *Utility Construction Inspection*
- *Utility Preconstruction Coordination*
- *Electrical Level 2*
- *Gas Level 1*
- *Communication*
- *Water & Sewer Level 2*
- *Water & Sewer Level 1*
- *Gas Level 2*

Note – Some geotechnical, right-of-way, roadway design, traffic operations and utility design prequalifications are not required with the initial proposal as it is uncertain to the extent practicable if they are necessary. Should any of these services become necessary during the delivery of the project in this or future phases, the selected Consultant team must obtain the required qualifications before providing those services, or bring on a subconsultant at that time.

XVII. PROCUREMENT SCHEDULE

Dates other than Response Date are tentative and provided for information only.

- Advertisement Date: October 8, 2019
- Response Date: October 30, 2019 by 4:30 PM ET (Frankfort Time)
- First Selection Committee: November 4, 2019

- Final Selection Committee: November 20, 2019
- Contract Scoping Conference: November 27, 2019
- Consultant Fee Proposal: December 27, 2019
- Contract Negotiations: January 24, 2020
- Notice To Proceed: February 25, 2020

XVIII. PROJECT SCHEDULE

- Existing Conditions Meeting – April 2020
- 1st Local Elected Officials/Stakeholders/Public Meeting – June 2020
- Level One Improvement Concepts Meeting – August 2020
- 2nd Local Elected Officials/Stakeholders/Public Meeting – September 2020
- Level Two Improvement Concepts Meeting – October 2020
- Submit Final Report – February 2021

XIX. EVALUATION FACTORS

Consultants will be evaluated by the selection committee based on the following, weighted factors:

1. Project approach and proposed procedures to accomplish the services for the project. (25 Points)
2. Relative experience of consultant personnel assigned to project team with highway project for KYTC and/or federal, local or other state governmental agencies. (15 Points)
3. Past record of performance on projects similar in type and complexity. (15 Points)
4. Capacity to comply with project schedule. (10 Points)
5. DBE Participation Plan. (5 Points)
6. Knowledge of the locality and familiarity of the general geographic area. (5 Points)

XX. SELECTION COMMITTEE MEMBERS

1. Stephen De Witte, P.E., User Division
2. Benjamin Hunt, P.E., User Division
3. Stewart Lich, P.E., Secretary's Pool
4. Patrick Perry, P.E., Secretary's Pool
5. Cole Mitcham, P.E., Governor's Pool

XXI. AREA MAP

