

A REQUEST FOR PROPOSAL FOR PROFESSIONAL SERVICES CONTRACT

Department of Highways
Professional Services Procurement Bulletin 2023-03
Washington | 4-164.20 | KY-555

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 - Washington
Route - KY-555
Item No. - 4-164.20
Project Description - Improve mobility on the KY-555 Heartland Parkway corridor from KY-53 to Bluegrass Parkway

II. PROJECT INFORMATION

Project Manager - Chris Smith, P.E.
User Division - Highway Design
Approximate Fee - \$450,000 Preliminary Engineering & Environmental Services (Lump Sum)
Project Funding - STP Federal Funding
Project Length - Approximately 5.996 miles

III. PURPOSE AND NEED

To improve mobility and make travel time more efficient and reliable along the Heartland Parkway Corridor, while improving safety.

The Heartland Parkway is a heavily travelled connector between the Bluegrass Parkway and Cumberland Parkway in Central Kentucky. Most of the corridor has been constructed along highways KY-55 and US-68, including two new bypass routes. The remaining portion, KY-555 in Washington County will complete this connector.

IV. DBE GOAL

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 should 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 in the Project Approach (Section 7) to exhibit this plan. A maximum of four (4) 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 preliminary engineering services to explore alignments and typical sections that would fulfill the project's Purpose and Need. Having limited existing Right of Way in certain areas, a raw water line running parallel to mainline, and a dam on the corridor, flexibility and iterations will be required to maximize the available area, while minimizing impacts to the adjoining property owners and facilities. Existing geometry to be analyzed with any crash clusters identified to explore spot improvements. Environmental resources will be identified to help steer project decisions.

Similar to previous sections of the Heartland Parkway, a 2+1 type facility is anticipated through much of the project, with alternative solutions through sensitive areas. Existing truck lanes to be utilized as previously warranted.

This project may be advanced to Final Design upon the completion of Preliminary Engineering with a Contract Modification. The selected Consultant will then be required to provide engineering services to perform Final Roadway and Structural Design, including the preparation of any design studies, drainage design, right-of-way plans, construction plans, traffic control plans, and cost estimates as well as any other services that KYTC chooses not to perform with in-house forces.

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>

VII. AVAILABLE STUDIES

[Planning Study – Washington | 4-132.00 | Heartland Parkway](#)

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. Refer to the 2019 CADD Standards for ORD V4 Project Development Memo for information pertaining to the latest CADD Standards and plan submittal.

IX. ENVIRONMENTAL SERVICES

See section XV for necessary Environmental Services that are expected to be provided by the Consultant. The anticipated environmental document will be a Categorical Exclusion Level 2. Prequalification of various Environmental Services are required to be identified in the Consultant's Response to Announcement.

It is anticipated that the initial contract will only include sufficient Environmental Services to perform a 'red-flag' study of the project area, including, but not limited to, historic and archaeology overviews.

X. PHOTOGRAMMETRIC SERVICES

The Department will provide project specific LiDAR digital mapping and will furnish manuscripts in DGN format. The selected Consultant shall supplement this information with conventional surveying as needed. It is expected that the selected consultant performs additional ground survey, including, but not limited to, existing Right of Way establishment/verification of archive highway plans.

XI. STRUCTURE DESIGN

Structure Design is not anticipated for Preliminary Design. When the project advances to Final Design and if the selected Consultant is retained for Final Design services, the selected Consultant shall do the necessary engineering services to submit to the KYTC an Advanced Situation Folder(s) for the appropriate structure(s). The selected Consultant may be responsible for any necessary Structure Design services. Structure Design of the proposed structure(s) may be added as a Contract Modification. Prequalification in the area of Structure Design is not required to be identified in the Consultant's Response to Announcement.

XII. GEOTECHNICAL SERVICES

The selected Consultant may provide all Geotechnical Services required for the project. The Preliminary Design contract may include preliminary geotechnical services to review available geological, mining, or other geotechnical information that could influence the selection of the preferred alternate. Geotechnical services necessary for the completion of Final Design may be added by contract modification at the appropriate time. At any time, if the Department has the capacity to provide these services, the Department may retain the advertised geotechnical services. Prequalification in the area of Geotechnical Services is not required to be identified in the Consultant's Response to Announcement.

XIII. TRAFFIC ENGINEERING

The Department will provide all traffic projections and related information.

XIV. UTILITIES

A utility location of Level C & D was performed in 2021. The information collected will be provided by the Department to the selected Consultant. The Consultant will be responsible for determining the existing locations of utilities. Utility relocation cost estimates will be provided by the Consultant.

XV. 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 ARCHEOLOGY & OTHER SERVICES

- Prehistoric Archaeology
- Socio-Economic Analysis
- Historic Archaeology
- Environmental Document Writing & Coordination
- Cultural-Historic Analysis
- *Highway Noise Analysis** (see note below)
- *Stream & Wetland Mitigation** (see note below)

ROADWAY DESIGN

- Rural Roadway Design
- Surveying

Environmental Aquatic & Terrestrial Ecosystems Analysis* (see note below)

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

Geotechnical Services* (see note below)

- *Geotechnical Engineering**
- *Geotechnical Drilling**
- *Geotechnical Laboratory Testing**

Structure Design* (see note below)

- *Spans Under 500 Feet**

Utility Design* (see note below)

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

** Note – These prequalifications are not required with the initial proposal as it is uncertain to the extent practicable if they are necessary. Should 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 prequalified subconsultant at that time.*

XVI. PROCUREMENT SCHEDULE

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

- Advertisement Date: September 13, 2022
- Response Date: October 5, 2022 by 4:30 PM ET (Frankfort Time)
- First Selection Meeting: October 10, 2022
- Final Selection: October 26, 2022

- Pre-Design Conference: November 2, 2022
- Consultant Fee Proposal: November 11, 2022
- Contract Negotiations: November 23, 2022
- Notice to Proceed: December 14, 2022

XVII. PROJECT SCHEDULE

- Public Meeting to Present Alternatives June 2023
- Preliminary Line & Grade September 2023

XVIII. 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. (30 Points)
2. Past record of performance on projects similar in type and complexity. (20 Points)
3. 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)
4. Capacity to comply with project schedule. (10 Points)
5. DBE Participation Plan. (4 Points)
6. Knowledge of the locality and familiarity of the general geographic area. (5 Points)

XIX. SELECTION COMMITTEE MEMBERS

1. Chris Smith, P.E., User Division
2. Adam Ulrich, P.E., User Division
3. Joseph Van Zee, P.E., Secretary's Pool
4. Erika Drury, P.E., Secretary's Pool
5. Bart Bryant, P.E., Governor's Pool

XX. AREA MAP

**PROJECT MAP
WASHINGTON COUNTY
KY 555
ITEM NO. 4-164.20
KY 53 TO BG PARKWAY**

