

A REQUEST FOR PROPOSAL FOR PROFESSIONAL SERVICES CONTRACT

Department of Highways
Professional Services Procurement Bulletin 2021-12
Simpson | 3-8856 | US-31W

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 - Simpson
Route - US-31W
Item No. - 3-8856.00
Project Description - Improve US-31W from KY 1008 to KY 621. Contrary to the Highway Plan description, the project will end at approximately MP 11.50 not at KY 621.

II. PROJECT INFORMATION

Project Manager - Jim Hudson, P.E.
User Division - Highway Design
Approximate Fee - \$1,200,000 (Lump Sum) Preliminary Engineering & Environmental Services
Project Funding - Federal Funds
Project Length - Approximately 3.023 miles

III. PURPOSE AND NEED

US 31W between KY 1008 and the north industrial park is predominantly a two-lane facility. There is a 0.60-mile section of this roadway that was previously widened to four lanes to accommodate the turning movements at a factory. US 31W is the major non-interstate, north-south route through Simpson County and provides a link between the cities of Franklin and Bowling Green. There is a mixture of residential, farmland, and industrial land use along this section. Congestion and delays in travel time often occur during morning and afternoon rush hour commutes due to the number of left turns and the lack of turning lanes at some of the commercial and industrial entrances. Due to the volume of traffic and the various turning movements, safety is a concern. Since US 31W is a vital and heavily traveled connection between the cities of Bowling Green and Franklin the increasing traffic is creating safety and mobility issues for motorists and commercial vehicles along the corridor. This project was identified as a No. 2 priority project by local officials during the 2020 SHIFT prioritization process. The purpose of the project is to address safety and mobility issues along US 31W and to provide a reliable connection between the cities of Bowling Green and Franklin.

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 in the Project Approach (Page 7) to demonstrate this plan. A maximum of 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 and Environmental Services. Preliminary Engineering includes surveying, line and grade plans, traffic engineering analysis as per Design Memo 03-11, preparation of engineering studies, identification of appropriate typical sections, identifying any utility impacts, performing preliminary drainage design, developing dependable cost estimates and conducting and preparing documents for public meetings. It should be noted that after KYTC obtained mobile LiDAR/aerial photo mapping, it was decided to extend the project approximately 1,900 feet. The selected Consultant will be required to obtain the additional survey needed to complete this project.

This project may be advanced into Final Design upon the completion of Preliminary Engineering with a Contract Modification. The selected Consultant would then be required to provide engineering services to perform Final Roadway Design. This would include the preparation of any design studies, drainage design, right-of-way plans, construction plans including storm water construction and post construction Best Management Practices (BMP). This would also involve the development of signing and pavement marking plans, traffic control plans, and final 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

[ORD - Simpson | 3-8856.00 | US-31W](#)

[DNA Draft – Simpson | 3-8856.00 | US-31W](#)

[Traffic Forecast 1-8-21 - Simpson | 3-8856.00 | US-31W](#)

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

Any necessary Environmental Services will be provided by the Consultant. The anticipated environmental document will be a Categorical Exclusion Level 1. Prequalification of various Environmental Services are required to be identified in the Consultant's Response to Announcement.

X. PHOTOGRAMMETRIC SERVICES

The Department will provide mobile LiDAR/aerial photo mapping and will furnish manuscripts on computer disk format. The selected Consultant shall supplement this information with conventional surveying as needed. It should be noted that after the Department obtained mobile LiDAR/aerial photo mapping, it was decided to extend the project approximately 1,900 feet. The consultant will be required to obtain the additional survey needed to complete this project.

XI. STRUCTURE DESIGN

Structure Design is not anticipated for this project. However, if structure design is needed 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 Department is expected to provide all Geotechnical Services required for the project. 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. The selected Consultant must obtain the required qualifications before providing these services, or bring a prequalified subconsultant at that time.

XIII. TRAFFIC ENGINEERING

The Department is expected to provide all traffic projections and related information. Traffic Engineering Design services 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 traffic services. Prequalification in the area of Traffic Engineering is not required to be identified in the Consultant's Response to Announcement. The selected Consultant must obtain the required qualifications before providing these services, or bring a prequalified subconsultant at that time.

XIV. UTILITIES

The selected Consultant shall provide a project location map to the Department. The Department will send project location maps to all potential 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 also be provided to the selected Consultant. All utilities including aerial carriers shall be field-verified by the Consultant. A Level C locate shall be performed with sizes and types of underground and aerial utilities identified on the plans for each alignment alternative in the PL&G submittal.

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 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

Roadway Design

- Rural Roadway Design
- Surveying

Traffic Engineering (please see note below)*

- *Traffic Engineering**

Structure Design (please see note below)*

- *Spans Under 500 Feet**

Geotechnical Services (please see note below)*

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

** Note – Traffic Engineering, Structure Design, and Geotechnical Services 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: June 8, 2021
- Response Date: June 30, 2021 by 4:30 PM ET (Frankfort Time)
- First Selection: July 6, 2021
- Final Selection: July 21, 2021
- Pre-Design Conference: July 28, 2021
- Consultant Fee Proposal: August 6, 2021
- Contract Negotiations: August 18, 2021
- Notice To Proceed: September 8, 2021

XVII. PROJECT SCHEDULE

- Conceptual Alternatives Meeting – January 1, 2022
- Public Meeting – February 15, 2022
- Preliminary Line & Grade Inspection – April 1, 2022
- Design Executive Summary – May 1, 2022

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. (20 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. (4 Points)
6. Knowledge of the locality and familiarity of the general geographic area. (2 Points)

XIX. SELECTION COMMITTEE MEMBERS

1. Jim Hudson, P.E., User Division
2. Tonya Higdon, P.E., User Division
3. Charlie Dale, P.E., Secretary's Pool
4. David Erickson, P.E., Secretary's Pool
5. R. Bruce Scott, P.E., Governor's Pool

XX. AREA MAP

Disclaimer: KYTC provides this map as a reference only. Users are to validate information independently.
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