

# A REQUEST FOR PROPOSAL FOR PROFESSIONAL SERVICES CONTRACT

Department of Highways  
Professional Services Procurement Bulletin 2019-08  
Jefferson | 5-557 | I-71

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 - Jefferson  
Route - I-71  
Item No. - 05-00557.00  
Project Description - Planning study of the I-71/I-264 interchange, and improve safety and reduce congestion on I-71 from Zorn Avenue to I-265.

## **II. PROJECT INFORMATION**

Project Manager - Elizabeth Niemann, P.E.  
User Division - Highway Design  
Approximate Fee - \$1,700,000 Planning Study & Preliminary Engineering (Lump Sum)  
Project Funding - Federal Funds (NH funds)  
Project Length - Approximately 7 miles

## **III. PURPOSE AND NEED**

The purpose of this project is to decrease congestion and improve traffic flow, safety, and operations into and out of the Louisville Metro area along the I-71 corridor between Zorn Avenue and I-265 (Gene Snyder Freeway).

The need is described in part in the *I-71 Corridor Study* that was developed in March 2014 to address safety and congestion and also identify and evaluate improvements along the I-71 Corridor between I-64 in Jefferson County and I-75 in Boone County.

The corridor study noted that the proposed project area (I-71 between Zorn Avenue and I-265) was operating at/near capacity. The study also recognized that a portion of the project area (in between Zorn Avenue and I-264) included 2 of the 7 locations identified in the study as principal safety concerns.

#### **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 responsible for a Planning Study, which includes the preparation of:

- Planning Level study of I-71/I-264 Interchange. This work includes but is not limited to:
  - Preparation of an Environmental Overview document.
  - Developing a range of alternatives to improve the interchange starting with small changes to individual ramps and building up to a complete rebuild based on traffic and safety needs.
  - Cost estimates associated with each alternative.

The selected Consultant will also be responsible for Preliminary Engineering including the preparation of:

- Preliminary Line & Grade (PL&G) plans for the widening of I-71 from Zorn Avenue to I-265 (Gene Snyder Freeway). This work includes but is not limited to:
  - Gathering survey for the project area.
  - Performing a Safety Analysis using Highway Safety Manual (HSM) methodologies.
  - Analyzing safety and geometrics along the mainline at all interchanges within the project area (including Zorn Ave; I-264; I-265).
  - Lane Balance Evaluation - Add/Drop at interchanges
  - Preparing documents for and conducting Public Meetings; developing/coordinating various public outreach activities.
  - Preliminary drainage design.
  - Preliminary Right-of-Way design.
  - Cost estimates associated with Preliminary Engineering of each alternative;
  - Cost estimates associated with possible breakout projects; Final Roadway Design; construction segments and estimates.
  - Performing a noise analysis; preparing a report.
- Development of plans/documents used in obtaining an approved Environmental document. Categorical Exclusion Level 3 Environmental Document anticipated.

After Preliminary Engineering and Environmental work is complete, this Project or segment of the Project may be advanced to Final Roadway Design with a Contract Modification. The Department reserves the right to advance the entire corridor to Final Roadway Design or break it into Sections for Final Roadway Design. The Department also reserves the right to advertise the entire project or parts thereof for Final Roadway Design. Final Roadway Design may include the preparation of any design studies, drainage design, right-of-way plans, construction plans, and cost estimates.

## **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**

The I-71 Corridor Study that was completed in March 2014 and is available on the Division of Planning's Web Page.

[Corridor Study – Jefferson | 99-394.00 | I-71](#)

[RW Plan Set 1220+63 to 1297+37 – Jefferson | 05-483.00 | I-71](#)

[Ramps Plan Profile Typicals – Jefferson | 5-804.00 | I-264](#)

## **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. ENVIRONMENTAL SERVICES**

Any necessary Environmental Services will be provided by the Consultant. The anticipated environmental document will be a Categorical Exclusion Level 3. Prequalification of various Environmental Services are required to be identified in the Consultant's Response to Announcement.

## **X. PHOTOGRAMMETRIC SERVICES**

The Department will provide LiDAR digital mapping and will furnish manuscripts on computer disks in DGN format. The selected Consultant shall supplement this information with conventional surveying as needed.

## **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 required to be identified in the Consultant's Response to Announcement.

## **XII. GEOTECHNICAL SERVICES**

Geotechnical Services are not anticipated for Preliminary Engineering with the exception of a possible overview of existing data to review available geological, mining, or other geotechnical information that could influence the selection of the preferred alternate. The Department is expected to provide any additional Geotechnical Services required for the project.

## **XIII. RIGHT OF WAY**

The selected Consultant shall identify property owners and perform deed research within the project limits. Property owner information shall be shown on the plans along with existing right-of-way and property lines. Right of Way Summary sheets shall be provided with the Preliminary Line & Grade submittal showing areas of taking for each alternative. Final Right-of-Way plans shall be furnished according to the Project Schedule.

The Department will be responsible for estimating Right-of-Way costs based on plans provided by the Consultant.

## **XIV. TRAFFIC ENGINEERING**

The Department will provide existing traffic counts, traffic forecast, and related information. The selected Consultant will provide the analysis of the existing and proposed operations. This will include a safety analysis using HSM methodologies, which should be documented in the Consultant's Response to Announcement.

Lighting and Signing Design services, if 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 traffic services.

## **XV. 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 be provided to the selected Consultant. All utilities including aerial carriers shall be field-verified by the Consultant. Sizes and types of underground and aerial utilities shall be identified on the plans for each alignment alternative in the PL&G submittal.

The Department will authorize B.U.D. (Before You Dig) to field-locate utilities during final design. The Consultant shall perform field surveys to collect the B.U.D. data. Horizontal location of existing utilities shown on final plans shall be adjusted as necessary to reflect actual B.U.D. locates.

The selected Consultant will provide SUE (Subsurface Utility Engineering) work as needed to field-locate utilities. Horizontal and vertical location of existing utilities shown in the roadway plans shall be adjusted by the Consultant as necessary to reflect actual SUE results.

## **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:

### ROADWAY DESIGN

- Rural Roadway Design
- Urban Roadway Design
- Surveying
- Advanced Traffic Engineering & Modeling

### STRUCTURE DESIGN

- Spans under 500 feet

### ENVIRONMENTAL AQUATIC AND TERRESTRIAL ECOSYSTEMS

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

### ENVIRONMENTAL ARCHAEOLOGY AND OTHER SERVICES

- Prehistoric
- Historic
- Highway Noise
- Air Quality Analysis
- Socioeconomic Analysis
- Cultural Historic Analysis
- EIS Writing and Coordination

### ENVIRONMENTAL AND UST SERVICES

- UST & Hazmat Preliminary Site Assessment (Phase I) **or**
  - Hazmat Preliminary Site Assessment (Phase I) **and**
  - UST Preliminary Site Assessment

### TRAFFIC ENGINEERING

- Traffic Engineering Services
- Electrical Engineering Roadway Lighting Services

### TRANSPORTATION PLANNING / CORRIDOR PLANNING

- Highway Planning Services
- Travel Demand and Simulation Modeling

### GEOTECHNICAL SERVICES (please see note below)

- *Drilling Services*
- *Engineering Services*
- *Laboratory Testing Services*

RIGHT OF WAY SERVICES (please see note below)

- Acquisition Services
- Relocation Services

UTILITY DESIGN SERVICES (please see note below)

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

*Note – Geotechnical, right-of-way, and/or 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, the selected Consultant team must obtain the required qualifications before providing those services.*

**XVII. PROCUREMENT SCHEDULE**

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

- Advertisement Date – February 12, 2019
- Response Date – March 6, 2019 by 4:30pm ET (Frankfort Time)
- First Selection Meeting – March 11, 2019
- Final Selection Meeting – March 27, 2019
- Pre-Design Conference – April 3, 2019
- Fee Proposal – April 12, 2019
- Contract Negotiations – April 24, 2019
- Notice to Proceed – May 23, 2019

**XVIII. PROJECT SCHEDULE**

- Draft Interchange Planning Study – November 2019
- Final Interchange Planning Study - May 2020
- Preliminary Line & Grade Inspection – May 2020
- Preliminary Right of Way and Utility Plans – June 2020
- Submit Design Executive Study – June 2020

**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. (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)

**XX. SELECTION COMMITTEE MEMBERS**

1. Elizabeth Niemann, P.E., User Division
2. Jill Asher, P.E., User Division
3. Patrick Perry, P.E., Secretary's Pool
4. Dane Blackburn, P.E., Secretary's Pool
5. Brad Rister, P.E., Governor's Pool

XXI. AREA MAP

