

A REQUEST FOR PROPOSAL FOR PROFESSIONAL SERVICES CONTRACT

Department of Highways Professional Services Procurement Bulletin 2025-12 Statewide Roadside Barrier Study

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

This statewide contract is to assist the Department in the development and delivery of a roadside barrier inventory and condition assessment. One (1) consultant will be selected to provide these services.

II. PROJECT INFORMATION

Project Manager -	Stephen De Witte, P.E.
User Divisions -	Planning, Maintenance, State Highway Engineer's (SHE) Office
Maintenance Liaison -	Chad Shive, P.E.
SHE Office Liaison -	Tracy Nowaczyk, P.E.
Approximate Fee -	\$500,000 (Cost Plus a Fixed Fee)
Project Funding -	Statewide Planning & Research (SPR) Federal Funds

III. PURPOSE AND NEED

The Department is responsible for maintaining a large amount of roadside barrier assets, although there is not currently a centralized and consistent repository. Due to the large numbers of assets and attributes, it is not practical nor prudent for state forces to manually retrieve asset information from the field; rather, the use of LiDAR and imagery to identify asset location and attributes while minimizing time and exposure of personnel in the field. This will facilitate the upkeep of these assets in a state of good repair.

The objective of this effort is for a Consultant to manage the delivery of an asset inventory of roadside barriers.

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 five (5) points will be considered in the Evaluation Factors for the DBE Participation Plan.

V. SCOPE OF WORK

The Consultant shall assist the Department in the development of methodologies, standards, and requirements to:

- Develop attribute data set, procedures, and recommendations for a roadside barrier inventory process. A roadside barrier is defined as any structure placed along the edge of roadway to prevent vehicle roadside departure or strike of roadside hazards.
- Facilitate inventory of roadside barrier structures on state highways through use of KYTC imagery and lidar datasets. The Consultant will extract imagery files and work with subject matter expert vendors as needed. These data will be limited to the Interstate, Parkway, State Primary, State Secondary, and Supplemental road systems.
- Perform pilot condition and functional assessments of roadside barrier structures. Define visual condition indicators (rust, misalignment, impact damage) and functional assessment criteria (barrier continuity, terminal integrity). Condition and functional criteria will be developed with the Department and not require investigation beyond image-based evaluation.
- Customize a mobile application with Trimble for condition assessment and inventory updates for the roadside barrier inventory.
- Maintain dataset and documentation in compliance with requirements of the Department's existing geospatial and asset management platforms.
- Develop a QA/QC plan for the quality control and validation of the collected data.
- Include risk management and contingency strategies for data gaps, technical issues, or unexpected field conditions.

The Consultant shall also produce a manual for recommended inventory and condition procedures. Additionally, the Consultant shall develop a methodology to integrate new or updated roadside barriers into the inventory dataset. Future assignments may include periodic updates to the inventory.

Prospective Consultants should not engage in exclusive teaming agreements with potential vendors and instead provide a Response which is vendor agnostic. The process and vendor for acquiring the inventory data will be determined during scoping.

VI. SPECIAL INSTRUCTIONS

The Department reserves the option to modify the selected Consultants' agreement to include any necessary engineering and/or related services for this project. The firm(s) or one of their subconsultants must at that time be prequalified by the Department in the required area(s).

The Department may modify the selected Consultant's agreement to include additional roadside barrier engineering services associated with this project. The additional related engineering services may be requested up to a contract upset limit of \$250,000 above the initial contract amount. No additional service contract shall exceed \$250,000 without written approval from the State Highway Engineer.

Instructions for Response to Announcement can be found at:

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

VII. AVAILABLE INFORMATION

The Department has both mobile and aerial LiDAR images with [these sensors](#). Images are stored in Google with links similar to this: https://storage.googleapis.com/kytc-photolog-data/Van7_Mandli_Data_2021/11-05-2021/2021_V7_092-KY-1583E/2021_V7_092-KY-1583E/Front/Dir_001/F_00127.jpg This is integrated into our photolog viewer (<https://maps.kytc.ky.gov/photologviewer/>)

Consultants will have access to the existing dataset and will be able to work within an environment of their choice, or with a supplemental vendor.

VIII. 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](#)* (see note below)

- Photogrammetry and Related Services*

[Transportation Planning](#)* (see note below)

- Conceptual Transportation Planning*
- Road Centerline Data Collection*

** 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.*

Although prequalifications are not required to avoid eliminating any technical experts, interested teams should detail their technical expertise as it relates to the RFP throughout their response. It remains important that consultants are familiar with KYTC's data image system, linear referencing system, and conceptual transportation planning process previously covered by the prequalification areas. The ability of a project manager to relieve time and effort on the part of the Department remains of critical importance.

IX. PROCUREMENT SCHEDULE

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

- Advertisement Date: June 10, 2025
- Response Date: July 2, 2025 by 4:30 PM ET (Frankfort Time)
- First Selection Meeting: July 7, 2025
- Final Selection: July 23, 2025
- Pre-Design Conference: July 30, 2025
- Consultant Fee Proposal: August 8, 2025
- Contract Negotiations: August 20, 2025
- Notice to Proceed: September 10, 2025

X. PROJECT SCHEDULE

- Study Completion Date: June 30, 2027

XI. 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. Relative experience of consultant personnel assigned to project team with highway project for KYTC and/or federal, local or other state governmental agencies. (20 Points)
3. Past record of performance on projects similar in type and complexity. (20 Points)
4. Available team workload capacity to comply with project schedule. (10 Points)
5. The Consultant demonstrates a comprehensive understanding of safety strategies and the ability to generate meaningful ideas that can measurably enhance the safety of the completed project. This includes both the immediate effectiveness and the long-term safety impacts of the finished facility. (10 Points)
6. DBE Participation Plan (5 Points)
7. Knowledge of the locality and familiarity of the general geographic area. (2 Points)

XII. SELECTION COMMITTEE MEMBERS

1. Stephen De Witte, P.E., User Division
2. Chad Shive, P.E., User Division
3. Matthew Sipes, P.E., Secretary's Pool
4. Emily Deason, P.E., Secretary's Pool
5. Marcelyn Mathews, P.E., Governor's Pool