

GEOSPATIAL FEATURES COLLECTION

The purpose of this prequalification screening is to determine if a firm has the capability to collect geospatial transportation features for KYTC. To receive approval, a firm needs to demonstrate its ability to utilize Global Positioning System (GPS) receivers and aerial orthoimagery to create geospatial polylines and points. The firm must demonstrate proficiency of performing both of these methods.

The firm shall submit a distinctly separate section of the prequalification application in which it provides evidence of its ability to meet the following requirements:

1. **GPS Collection and Processing**

- The firm shall provide a listing of the specific equipment and software in its possession that would be used to collect and process GPS data.
 - The GPS receiver(s) must be certified by the manufacturer to have the capability of obtaining sub-meter horizontal accuracy after post-processing or real-time correction.
 - The software must be compatible with the GPS equipment and capable of generating polyline and point features in shapefile or file geodatabase format.
- The firm shall provide a narrative that proves its ability to repeatedly satisfy KYTC's horizontal accuracy standard of 0.5 to 2 meter relative positional error at the 95% confidence level.

2. **Aerial Orthoimagery Digitizing**

The firm shall provide a listing of the specific geospatial software in its possession that would be used to digitize polyline and point features over orthoimagery basemaps.

3. **Personnel**

The firm shall demonstrate that current staff members have the knowledge and skills to provide these services for KYTC. Resumes must be provided for each individual that could potentially perform work in this category. Each individual's resume must contain the following:

- Educational history
- Applicable professional certifications
- Applicable training received
- Applicable skills
- Related work experience

4. **Related Projects**

The firm shall provide a minimum of three related projects completed within the last five years that demonstrate its capability to provide these services for KYTC. There must be a minimum of one project utilizing each of the aforementioned collection techniques to prove competency for both methods. The description of each project must include the following:

- Client name
- Contract amount
- Location of the features collected
- Type and number of features collected
- Equipment and software used
- Procedures for collecting features, including Quality Assurance and Quality Control measures
- Participating personnel