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August 7, 2023

Ms. Emma Moore  
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**New Mercer Co ES Site Selection**  
Additional Topo Limits  
Harrodsburg, Kentucky



Qk4 is pleased to be given the opportunity to respond to this Request for Proposal for surveying services for the above referenced project. The following items are included in the scope of work:

### **TOPOGRAPHIC SURVEY (Alternate)**

Qk4 surveyors will prepare a topographic survey of the area shown in the attached RFP for the Mercer County Board of Education located at US-127 By-Pass/Bohon Road, Harrodsburg, KY including visible improvements such as pavement, sidewalks, playground, fence, trails, poles and signs. Individual Trees 4" or larger will be picked up in open areas, and the outline of wooded areas will be shown. Contours will be rendered at 1-foot intervals and spot elevations will be based on data generated from conventional ground survey, photogrammetric mapping utilizing survey mapping drones operated by a Certified Remote Pilot. Other controlling elevations, invert elevations, critical spot elevations, etc., where a higher level of accuracy is required will be obtained by conventional survey methods. We will set at least two benchmarks on site tied to horizontal and vertical controls.

Please see attached RFP dated, 6/2/22 and labeled RTA 22029 for detailed scope narratives and the following are clarifications:

- Survey Area: See RFP pages 3 and approximately 6 acres in total.
  - Survey to stay within the limits of the Right of Way.
- Survey per Kentucky Standards of Practice 201 KAR 18:150
  - Not a Boundary Survey, Survey will reference current Deed and Record Information and note any discrepancies.
- Utilities:
  - Additional utility information for Water/Gas/Communication/Electric (i.e. material/size/depth) will be based on plans provided by the utility company and site representative, QK4 will not excavate to verify said information.
  - QK4 will place a KY811 Utility Locate Request and locate the lines as marked and compare with plans provided by the local utility company.
  - Third Party Utility Locator: See below scope
    - Markout of the site using electromagnetic locating equipment.
    - If utilities are non-metallic and tracer wires/tape are not installed, all efforts will be made to locate these items but results cannot be guaranteed.
    - All utilities located will be indicated on the ground with marking flags and/or paint as per the national color code.

**GENERAL SURVEY CONSIDERATIONS:**

- Survey equipment to complete this survey will include GNSS Multi-Channel GPS receivers, Robotic total stations, Digital levels (if needed), UAS mapping drones, and 3D Laser Scanning (if needed).
- Survey will be tied to Kentucky State Plane Coordinates, NAD 83 KY Single Zone, US Survey Feet Horizontal Datum and NAVD 88 Vertical Datum.
- Deliverables will be in:
  - Topographic Survey
    - AutoCAD DWG and PDF file formats
    - DTM will be in TIN / XML / DWG file formats
    - Additional information will be added to original drawing information and submitted as a new submittal package.

**Schedule of Hourly Rates for Surveying Services:**

- 2-Man Survey Crew \$185.00/hr.
- 1-Man Survey Crew \$105.00/hr.
- CADD Operator \$80.00/hr.
- Professional Land Surveyor (PLS) \$125.00/hr.
- Mileage (included in rates above) \$0.60/mile
- Per Diem / Lodging (at cost)(Included in rates above)

**FEE SUMMARY**

Compensation for the Survey services, as described shall be a lump sum fee of:

Additional Topographic Survey:	\$ 2,500.00
3 <sup>rd</sup> Party Utility Locate:	\$ 750.00
<b>Total Combined Cost:</b>	<b>\$ 3,250.00</b>

Please do not hesitate to contact me if I can provide any additional information or clarifications.

**Schedule:** From a NTP QK4 can have deliverables within **8 weeks** or sooner.

Sincerely,



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HARRODSBURG, MERCER COUNTY, KY 40390

ORIGINAL  
SURVEY AREA

ADDITIONAL SURVEY AREA

ADDITIONAL SURVEY AREA

