

P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484



PHONE 606.365.8362
FAX 606.365.1097

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Benjamin R. Boggs ASLA
Landscape Architect



Clotfelter-Samokar, PSC
Architecture | Interiors | Landscapes | Planning
228 E. Reynolds Road, Suite One
Lexington, KY 40517

Subject: Garrard County High School Topographic Survey – Lancaster, KY

Mr. Boggs:

I appreciate the opportunity to submit this proposal for the Garrard County High School Topographic Survey work. Based on the information provided by Clotfelter-Samokar, I have put together the following proposal.

The topographic survey work to be performed on this project will include the following:

- Survey the area shown in red on Exhibit 'A' attached hereto.
- Establish a minimum of three (3) permanent benchmarks on site.
- Show approximate property boundary lines based on deeds or other information provided by the client.
 - This proposal does not include time for deed research or time to perform a boundary survey meeting the requirements of the Kentucky Board of Engineers and Land Surveyors.
 - Approximate location of property boundaries will be shown for reference purposes (if sufficient information is provided).
- Building Footprints
- Other Existing Site Improvements (i.e. pavements, walls, steps, wells, etc.)
- Natural Drainage Ways
- Existing Drainage Infrastructure (i.e. pipes, inlets, headwalls, etc.)
- Existing Utilities shall be shown based on record information, surface evidence, and information obtained from the KY 811 service. Inadequate record data requiring AGE to employ additional utility location will be an additional service subject to Owner approval.
 - No underground exploration will be performed.
- Existing Trees 4" Diameter at breast height and larger
 - "Grouped" trees will not be individually surveyed; driplines will be shown for the entire group.
- Topographic survey deliverables will be prepared in a DWG format for use as the basis of design.
 - Surface contours will be generated on a 1ft contour interval.

Costs to perform the survey are shown below:

1. Existing Conditions Aerial LiDAR Survey

During this exercise, AGE Engineering will gather all linework and topographic data inside the areas outlined in red shown on Exhibit 'A' including: Edge of gravel, edge of pavement, buildings, tree driplines, existing fences, topographic surface data and other features found on site by using aerial LiDAR procedures.

Microdrones md4-3000 w/ Riegl LiDAR Sensor – Lump Sum = \$12,250.00

2. Field Survey to Map Additional Features

During this exercise, AGE Engineering will work with the KY-811 service and documents provided by the Owner to identify existing underground utilities on site and measure the locations as marked by the underground locating personnel. All locatable utilities inside the red areas shown on Exhibit 'A' will be located, marked, surveyed, and shown on the deliverable files.

Real Time GPS (Trimble R12/R10 System) Field Crew – Lump Sum = \$7,250.00

3. Field Survey to Benchmarks for Construction Layout Purposes

During this exercise, AGE Engineering will work to install three (3) or more permanent benchmarks on site. AGE will use a differential level to ensure all benchmark elevations are measured within 0.01' relative to the other installed benchmarks.

Real Time GPS (Trimble R12/R10 System) Field Crew – Lump Sum = \$1,000.00

4. CAD work to generate deliverable files

Existing Conditions Survey Drawing; During this exercise, AGE Engineering will work to generate all applicable deliverable files by incorporating all survey data from the field survey, underground locates, and control survey to produce an Existing Conditions Survey Drawing. The drawing will contain the linework, surface contours, etc. for use as the basis of design. PDF, DGN, DWG, & XML surface files will be provided.

Registered Professional Land Surveyor & CAD Engineer, E.I.T. to P.E. – Lump Sum = \$5,000.00

The total **LUMP SUM Cost** of the Topographic Survey = **\$25,500.00**.

If additional survey services are required, the rates above (Field Crew @ \$135.00 per hour, & Office work @ \$95.00 per hour) will be utilized for all "standard" survey services.

Topographic survey services performed inside the areas shown in yellow are included in the pricing above. Any additional work (including boundary survey work, retracement plats, minor plats, etc.) will require additional pricing and approval by the Owner.

If you have any questions about this proposal, please call 606-365-8362.

Lucas B Harris, PLS
AGE Engineering Services, Inc.

Exhibit 'A'

