



BROWN + KUBICAN

STRUCTURAL ENGINEERS PSC

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Lexington, KY 40505
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Lexington • Louisville

October 27, 2020

Barry Bishop
CSI of Kentucky
858 Contract Street
Lexington, KY 40505

Andy Fiehler
S&ME, Inc.
2020 Liberty Road
Suite 105
Lexington, KY 40505

Liz Newcomb
ECS Southeast, LLP
1762 Watterson Trail
Louisville, KY 40299

RE: Request for Proposal
Geotechnical Engineering Services
Campbellsville Independent Schools
Baseball and Football Field Renovations
Campbellsville, Kentucky 42718

Lady and Gentlemen:

Brown + Kubican, PSC, on behalf of the Campbellsville Independent School District, requests a proposal for geotechnical investigation, engineering and report for the referenced project. Should the Owner accept your proposal, your contract will be with the Owner directly. Please address your proposal/contract to:

Chris Kidwell
Associate Superintendent/Finance Director
Campbellsville Independent Schools
136 S. Columbia Avenue
Campbellsville, KY 42718

Please send your proposal to me via email to dkubican@bkse.net no later than 2 pm on Friday, October 30, 2020. We will assemble the proposals and forward them to the Architect.

The Geotechnical Engineer shall consider this proposal request as a performance requirement for work with minimum standards. The Geotechnical Engineer shall be responsible for providing all necessary tests to their standard of care. The Geotechnical Engineer shall include with their proposal a statement defining any proposed deviations from the requirements of this proposal request.

The Geotechnical Engineer shall hold the proposal open for acceptance by the Owner for a period of 60 days after the date of submittal to the Engineer.

Project Description

The project includes field and turf work and modifications to the bleacher system at the high school athletic field.



Scheduling

Subject to any limitations stated in this proposal or documented in your proposal and accepted in writing by the Owner, the field work by the Geotechnical Engineer shall commence within 14 calendar days of acceptance of a contract. Final report with documentation of all findings and recommendations to be provided within 42 calendar days of notice to proceed.

The Geotechnical Engineer shall contact the following person in order to schedule site access and make necessary arrangements a minimum of 2 days prior to access:

Carl Lee

Phone (270) 403-5563

Email carl.lee@cville.kyschools.us

Compensation

The Geotechnical Engineering proposal shall provide a lump sum fee with rate and price schedule proposal. Unit rates shall be used for adjustment of geotechnical engineering work should siting of building change drastically or other change in scope be requested after initial field work for the first phase of geotechnical field work.

The cost of the geotechnical investigation and engineering services (including the furnishing of all materials, apparatus, equipment, labor, and insurance) for soil and rock boring and all other exploration procedures, sampling, field and laboratory testing, preparing and submitting logs and reports shall be included in the lump sum fee.

The cost of any geotechnical services or consultation during design and construction shall be provided in accordance with the unit rate schedule.

Provide separate alternate pricing for clearing, rough grading, regrading, and seed/straw which would be required for access of the field equipment. The Owner reserves the right to provide for such under separate contract.

Billing and Payment

Bill for all work to the Owner's contact and address located within this RFP. Final payment will be by Owner in accordance with the negotiated contract.

Insurance

The Geotechnical Engineer shall provide a list of all insurance coverages in effect on the date of this proposal. For each coverage this list shall identify the type of coverage, the name of insurer, the limit of liability, and the date of expiration of the applicable policy(ies). The minimum coverage shall be as follows:

- Professional Liability \$1,000,000 per claim / \$1,000,000 aggregate
- General Liability \$2,000,000
- Automobile Liability \$1,000,000
- Workman's Compensation Statutory limits

Qualifications

All work shall be performed by qualified personnel under supervision of a Registered Professional Engineer. All field work shall be performed under the continuous supervision (present in the field) of a Registered Professional Engineer or Geologist. All reports shall bear the seal of Registered Professional Engineer in responsible charge.

All work to be in compliance with the requirements of this request for proposal, industry standards, and section 1803 of the International Building Code. Where conflicts exist, notify Engineer within proposal.

Reports and Logs

Deliver one (1) hard copy of final Geotechnical Report(s) and logs to the Owner. Provide electronic copy (pdf) of all Geotechnical Report(s) and logs to Brown + Kubican, PSC (email to dkubican@bkse.net). The Owner, or the Engineer or Architect working on the Owners behalf, may make copies or distribute the electronic report(s) and log(s) as necessary in connection with the proposed Project without incurring obligation for additional compensation to the Geotechnical Engineer.

Protection of Property

The Geotechnical Engineer shall contact the Owner and all utility companies for information regarding buried utilities and structures, shall take all reasonable precautions to prevent damage to property both visible and concealed, and shall reasonably restore the site to the condition prior to the Geotechnical Engineer's field work. Such restoration shall include, but not be limited to, backfilling of borings and soundings, patching of slabs and pavements, and rough grading of lawns and planting. Each boring shall be temporarily plugged, pending additional groundwater readings. At the completion of groundwater readings, the borings shall be permanently plugged, including patching of pavements.

Disposition of Samples

After laboratory tests have been completed, retain samples at Geotechnical Engineer's properly conditioned storage facility until foundation installation is complete.

Field Investigation, Sampling and Testing

The Geotechnical Engineer shall fully perform exploration and testing as required to obtain information that the Geotechnical Engineer requires for professional interpretation of subsoil conditions at the building site. The extent of exploration undertaken to be consistent with the scope of the Project as indicted through this Request for proposal.

Drilling and sampling shall be performed in accordance with current American Society of Testing and Materials (ASTM) standards.

Samples shall be preserved and field logs prepared by the Professional Engineer or Geologist on site.

Minimum work to be included:

- Provide a minimum of 2 borings at the bleachers located approximately as shown on plan. The Geotechnical Engineer shall coordinate with actual field conditions and locate borings as required to investigate geological features or to miss existing construction, utilities, obstructions, etc.
- Locate all borings on the site by survey. Benchmark elevations to National Vertical Geodetic Datum (NVD).
- Soil borings in sufficient number to document and report the following:
 - Soil unit weight, wet and dry.
 - Soil moisture content.
 - Soil unconfined compressive strength.
 - Top of bedrock.
 - Soil or rock bearing capacity.
 - Ground water.
 - Material classification per ASTM D2487.
- Soundings to determine top of rock at 39 locations located approximately as shown.
 - Infiltration test to the northeast of the football field. Excavation to be 4 feet deep to test the soil at depth that the drainage system leaves the field.
- Test pit at existing bleacher foundation to determine depth to existing footing, width of existing footing, and footing bearing media at bleachers.

Reports and Logs

Provide testing results, and sampling reports and logs:

- Identify ASTM standards and other sampling and test methods utilized.
- Soil properties.
- Soil classification criteria, terminology, and symbol legend.
- Plot plan of boring/soundings with dimensioned location of tests and other field sampling.
- Boring log (section) for each which graphically presents sampling methods, date of start and finish, surface elevation, description of soil/rock and the thickness of each layer, number of blows per foot (N value), groundwater elevation. Note the presence of organic, wet, soft, or fill material; and other material that might affect the construction.

Engineering Evaluation, Conclusions, and Recommendations

The Geotechnical Engineer shall analyze the information gathered on site and by testing and sampling, as well as his experience and engineering judgment, and shall prepare a report of findings and recommendations for the design and construction of the proposed project with minimum topics as follows:

- General Description
 - Site location.
 - Type of terrain and cover.
 - Surface drainage.
- General Site Geology including surface and subsurface conditions.
- Recommended type of foundation system for bleacher modifications.
 - Recommended net allowable bearing values for isolated and continuous footings.
 - Anticipated differential and total settlement.
- Minimum frost depth requirements.
- Allowable mass compacted fill material type and placement requirements.
 - Specifications for the preparation of the site prior to the placement of compacted fill material.
 - Test methods to be used to determine the maximum dry density and optimum moisture content of material to be used as compacted fill.
 - Maximum allowable thickness of each lift of compacted fill material.
 - Minimum acceptable in-place dry density expressed as a percentage of the maximum dry density.
- Anticipation of, and management recommendations for, groundwater. Estimate potential variation in the elevation and movement of groundwater.
 - Underdrain requirements.
 - Dewatering requirements.
- Management of potential shrinkage and swelling materials (pyrites, CH soil, etc.), chemically active, corrosive, and deleterious materials.
- Soil material and compaction requirements for site fill, construction backfill, foundation “cushions”, etc. below structures and pavements.
- Management of weather or construction equipment on soil during construction.
- Cold weather requirements.
- Site Class per International Building Code 1613.3.2.

If you have any questions, please feel free to call me.

Sincerely,



Dan Kubican, P.E.

Cc: Matt Brooks – NOMI Design

Attachment: Site Plan



NATURAL GAS
ATMOS Energy Corporation
Commonwealth Drive
(270) 685-8069
www.atmosenergy.com

ELECTRIC
Taylor County RECC
West Main Street
Campbellsville, KY 42718
(270) 465-4101
www.tcrecc.com

Kentucky Utilities
West Main Street
Campbellsville, KY 42718
(800) 363-5592
www.kyu.com

BROADBAND
INTERNET
Comcast Communications
850 Meader Street
Campbellsville, KY 42718
(270) 465-5038
www.comcast.com

Windstream Corporation
1715 East Broadway
Campbellsville, KY 42718
(270) 465-3141
www.windstream.com

WATER AND SEWER
Campbellsville Municipal
Water & Sewer Company
110 South Columbia Avenue, #A
Campbellsville, KY 42718
(270) 769-3133
www.Campbellsville.us

Note:

1) Prior to starting construction the general contractor shall be responsible to verify that all required permits and approvals have been obtained. No construction or fabrication of any item shall begin until the contractor has received all plans and any other documentation from all the permitting and any other regulatory authority.

2) The locations of underground utilities as shown hereon are based on aboveground structures and record drawings provided to surveyor. Locations of underground utilities/structures may vary from locations shown hereon. Additional buried utilities/ structures may be encountered. The locations of underground utilities as shown hereon are based on the markings and directions by the Campbellsville Independent Schools Institutional maintenance department. No excavations were made during the progress of this survey to locate buried utilities/structures. Before excavations are begun, the utilities offices should be contacted for verification of field locations. Contact Kentucky Underground (800-752-6007). Existing utility locations are approximate as shown. It is the contractor's responsibility to notify utility companies and verify their locations prior to construction. The owner and engineer are not responsible for damage to the existing utilities that may occur during construction. The contractor shall be responsible for coordinating the location of the existing underground utilities by calling Kentucky Underground.

3) Contractor shall verify all on-site utilities prior to actual construction.

4) Contractor is responsible for the protection of all property within the construction area and shall provide approved erosion and silt control measures. Contact Blake Durrett, City Engineer of Campbellsville (270 465-7011).

5) All methods of silt control shall be in accordance with the following: A) "Best management practices for construction activities", Aug. 1994 Kentucky division of water. B) EPA (632-R-92-005) "Storm Water Management for construction Activities" and the requirements of the City of Campbellsville.

6) The contractor is responsible for cleanup of all public and private roads of any earth from the site. Site shall be inspected by governing bodies periodically during construction.

7) The property shown hereon resides in Zone X of the FEMA flood map numbered 21217C0155C, effective on 05/24/2011.

Note:

Utility lines shown hereon within the property of Campbellsville Independent Schools were derived from the testimony of Maintenance personnel. Actual locations of underground utilities may vary.

Legend

- = SANITARY SEWER MANHOLE
- = GAS VALVE
- = UTILITY POLE
- = LIGHT STANDARD - EXISTING
- = IRRIGATION CONTROL - EXISTING
- = WATER VALVE
- = T.B.M. - AS NOTED
- = EXISTING SPOT ELEVATION
- = FLOOR ELEVATION
- = FIRE HYDRANT
- = GRAVEL SURFACE
- = ASPHALT SURFACE
- = CONCRETE SURFACE

- = FENCE CHAIN LINK
- = FENCE METAL
- = WATER LINE - EXISTING
- = OVERHEAD UTILITY LINE
- = TELEPHONE LINE - US EXISTING
- = ELECTRIC LINE - US EXISTING
- = GAS LINE - US EXISTING
- = IRRIGATION LINE - US EXISTING
- = BY TESTIMONY OF MAINTENANCE DEPT.

SURVEYOR'S CERTIFICATE

I do hereby certify that the Topographical survey shown hereon was performed under my direction using appropriate G.P.S. Methods for measuring recovered monuments and establishing survey control and/or by the method of random traverse.
The entirety of the data collected for this survey was done so through GPS means when acceptable; and by conventional means, from GPS control points, when necessary. Survey was performed using GPS equipment EPOCH GPS/GNSS Receiver - EPOCH 35; GPS & GLONASS (GNSS) RTK dual frequency with centimeter accuracy (HRMS OF 0.02" OR LESS) and Nikon Total Stations. This does not constitute a boundary survey and is intended for informational or planning purposes. Not For Record.

KYPLS 3319: _____

DATE: _____ DATE: _____

PLATTED: SEPTEMBER 15, 2020
SURVEYED: SEPTEMBER 15, 2020

TOPOGRAPHICAL SURVEY
For
Campbellsville Independent Schools
136 S Columbia Avenue
Campbellsville, Kentucky 42718

C.I.S
Baseball & Football Field
Gowdy Street & Bell Avenue
Campbellsville, Kentucky 42718

DABNEY
Engineering and Land Surveying
213 East First Street
Campbellsville, Kentucky 42718
270-769-4458