THP Limited

Request for Subsurface Investigation

To: Alan Elgersma, Champlin Architecture

Project: University of Kentucky Cancer Treatment Center/ASC THP # 20480.00

Location: Lexington, Ky. By: Tom Shumate

Architect: Champlin Architecture/HGA Date: 10/28/2022

Owner: UK Healthcare

1. Structure:

Slab on Grade Elevations: Garage – TBD, Cancer Center – TBD

Number of Stories: Garage – TBD, Cancer Center – TBD but could be 6 with rooftop PH

Basement: Yes

Frame System (s): Garage – cast in place post tensioned concrete, Cancer Center – TBD

Typical Bays & Net Footing Loads: Garage – TBD, Cancer Center - TBD

2. Site & Miscellaneous Work: Refer to proposed boring plan from HGA for approximate extent and limits of site work.

3. Recommended Test Holes, Type, Location & Depth: Boring locations and number within garage and cancer center footprint to be determined by geotechnical engineer as necessary to provide information requested on page 2 of this form. As a minimum, provide (11) borings within footprint of garage including future phases, (24) borings within footprint of cancer center including future phases, and (6) within footprint of site utilities/tunnel/connector bridge for a minimum total of (41) borings. Refer to proposed boring plan from HGA.

4. Reference Drawings Attached: Refer to proposed boring plan from HGA.

5. Soils Engineering Report Required: Yes ☒ No ☐

6. Report Should Include the Following:

Yes	No		Item
☒	☐	a.	Log of soils and water levels
☒	☐	b.	Engineering analysis of soils structure based on lab analysis
☒	☐	c.	Recommended soil pressures and types of footings or deep foundations
☒	☐	d.	Recommend site work required for adequate base for slab-on-grade and paving
☒	☐	e.	Recommend method for sheeting piling or other excavation protection
☒	☐	f.	Lateral earth pressures active, passive
☒	☐	g.	Permissible slopes between bottoms of footings
☒	☐	h.	Permissible cut and fill slopes permanent, temporary
☒	☐	i.	Recommendation for footing and wall drain
☒	☐	j.	Recommended backfill material
☒	☐	k.	Recommended sliding resistance (coefficient or friction) and passive pressures for lateral load resistance
☒	☐	l.	Determine seismic site coefficient based upon soil profile type
☒	☐	m.	State if soil which will be in contact with concrete contains a water-soluble sulfate (SO_4) content more than 0.20 percent by weight and/or if water which will contact concrete has a sulfate content over 1500 ppm
☒	☐	n.	State if material below slabs-on-grade and/or foundations may heave or cause uplift forces after construction, and if so, recommend measures to prevent heaving or uplift forces.
☒	☐	o.	Any other aspect of soil conditions affecting the design and construction of this facility such as the presence of Karst features. Anticipate geophysical studies such as electromagnetic induction survey (EMI) and electrical resistivity imaging (ERI) will be needed. A pre-drilling program with rock cores taken at all main foundations such as below columns may also be required.

7. Soils Engineering Proposal Shall Include Review of Final Foundation Contract Documents Prior to Bid.