***The University of North Carolina at Charlotte***

Capital Projects

Facilities Management/Police Building

9201 University City Blvd.

Charlotte, N.C. 28223-0001

TEL: 704-687-0615

FAX: 704-687-5275

**PROJECT**: **Residence Hall Phase XIV Code 41226 Item 309**

 **and**

 **South Entrance Intersection Improvements Code 41326 Item 310**

**Construction Materials Testing and Special Inspections**

Thank you for your interest in the subject project. This information is being provided to all firms which express an interest in the design of the project.

**Submittals are due to the Capital Projects office by 2:00pm on Wednesday, January 28, 2015**. Please deliver three (3) print copies and one (1) digital copy (assembled into a single file) of the submittal to the address indicated above. Submittals are to include the standard 330 Form, the UNC Charlotte Consultant’s Supplemental Information Form, along with any additional information considered appropriate. In your submittal, please emphasize the achievements and qualifications of those persons who would be working on our project. If you present information on previous projects, it would be helpful to inform us how your team members participated on those projects.

Limit the size of your submittal document to no greater than 12½ inches in height and 9½ inches in width. The pages shall be limited to 50 pages total including form 330 but not covers. **Do not transmit any submittal information via email.**

All submittals will be reviewed by an appointed University Evaluation Committee.

Sincerely,

Brian Kugler

Project Manager

**UNC Charlotte**

**Residence Hall Phase XIV**

**Code 41226 Item 309**

**South Entrance Intersection Improvements**

**Code 41326 Item 310**

**PROJECT DESCRIPTIONS:**

The designs will be consistent with the Campus Master Plan and the university’s design manual standards. The designs will impart a sense of permanence and tradition in its exterior appearance and in a manner consistent with recently designed buildings in the vicinity.

In your submittal, please emphasize the achievements and qualifications of those persons who would be working on this project. If you present information on previous projects, it would be helpful to inform us of how your team members participated on those projects.

Residence Hall Phase XIV

The project will construct a 157,000 (est.) gross square foot residential building consisting of ~425 beds in suite and apartment configuration.  Each floor will include meeting and laundry rooms, and wireless internet access in the common areas, lounge, and multi-purpose rooms. This building will utilize brick and pre-cast concrete on the exterior as is typical for this campus. Phase XIV is designed to comply with Senate Bill (SB) 668.

Some of the important design elements for each Residence Hall will be:

* Foundations will be spread shallow and deep footings.
* Site work will include backfill and compaction for fill materials.
1. Structure will be steel and load bearing metal studs.
2. Exterior is to be a mix of architectural precast, brick, and metal panels.

The roof is proposed to be primarily asphalt shingles and partially single ply membrane.

South Entrance Intersection Improvements

The project will perform roadway intersection improvements at the UNC Charlotte campus intersection of Cameron Boulevard & NC State Highway 49. Key elements affecting intersection performance include;

* Pedestrians - the designated route and widths for the pedestrian including both sidewalk and crosswalks.
* Bicyclists - (1) the degree to which pavement is shared or used exclusively by bicycles and (2) the relationship between turning and through movements for motor vehicles and bicycles.
* Motor vehicles - (1) the type of traffic control, (2) the vehicular capacity of the intersection, determined primarily from the number of lanes and traffic control and (3) the ability to make turning movements.

Some of the important design elements will be:

* Telecom duct bank construction including directional drill under NC Highway 49.
* Culvert extension under Cameron Blvd.
* Brick paver sidewalk installation.

**EXPECTATIONS OF THE CONSULTANT**

Members of the Consultant’s Team must be capable of listening, comprehending and responding to University leaders, Architects, Engineers, and Contractors working with the University. The Consultants team must include professionals who can demonstrate high standards of accomplishments and knowledge in the following areas:

1. North Carolina State Construction Office procedures
2. Providing materials testing in a timely fashion and promptly distributing results
3. Laboratory testing of soils and concrete
4. Special Inspections knowledge and SI qualified personnel
5. Ability to issue Final Special Inspections Final Report at project conclusion
6. Engineering and review reporting
7. Knowledge of Chapter 17 building code

**BUDGET/SCHEDULE**

The current construction budgets/GM and construction schedules for the projects are approximately:

Residence Hall Phase XIV $38,500,000 (GMP)

Construction Schedule March 2015 – July 2016

South Entrance Intersection Improvements $1,300,000

Construction Schedule April 2015 – August 2015

S**PECIAL INSPECTIONS REQUIREMENTS**

“Special inspections" means detailed inspections of materials, installation, fabrication, erection or placement of components and connections requiring special expertise to ensure compliance with construction documents and referenced standards as per Section 1704 of the NC State Building Code.

Individuals providing inspections shall meet the following minimum criteria of certification and/or documented experience. Work experience must be related to the field for which the inspector is being utilized. Work experience may be gained by working for an inspection/testing agency, an engineering firm, or a contractor as a technician, inspector or engineer.

The construction divisions which require special inspections for the projects are as follows:

Residence Hall Phase XIV

[x]  IT-1 Verification of Soils

[x]  IT-2 Excavation and Fill

[ ]  IT-3 Piling and Drilling Piers

[ ]  IT-4 Modular Retaining Walls

[x]  IT-5 Reinforced Concrete

[ ]  IT-6 Post Tension Slab

[x]  IT-7 Pre-cast Concrete Erection

[ ]  IT-8 Pre-stressed Concrete

[x]  IT-9 Inspection of Pre-Cast Fabricators

[x]  IT-10 Inspection of Structural Steel Fabricators

[ ]  IT-11 Structural Masonry

[x]  IT-12 Welding

[x]  IT-13 High Strength Bolts & Steel Framing Insp.

[x]  IT-14 Sprayed Fire-Resistance Materials

[ ]  IT-15 Exterior Insulation and Finish system

[ ]  IT-16 Seismic Resistance

[ ]  IT-17 Smoke Control

[ ]  IT-18 Detention Basin

[ ]  IT-19 Special Cases (Rammed Aggregate Piers)

**Responsibilities and role of the Special Inspector:**

During Pre-construction Phase

• Provide Owner or Designer an estimated fee to provide special inspections if requested.

• Participate in preconstruction meeting.

During Construction Phase

• The Special Inspector (SI) shall provide all inspections outlined in the scope as defined in the Statement of Special Inspections, except those performed by the SER. The SI may retain the services of other qualified Agents of the Special Inspector (Agents) to conduct particular inspections and tests. The Special Inspector shall provide and distribute all field reports as agreed upon in the preconstruction meeting. Efforts shall be made to avoid duplication of inspections.

• Administer special inspection process. The SI is responsible for managing and coordinating the efforts of the various agents.

• Adhere to reporting requirements outlined in Chapter 8.

• For simple deficiencies discovered, the Special Inspector shall immediately inform the Contractor of the deficiency. The SI makes a record of the deficiency and a record of the corrective actions taken in the Discrepancy Notice.

• For complex deficiencies, the SI immediately informs the Contractor, the remainder of the Design Team, and the Owner of the complex deficiency in the Discrepancy Notice. The SI must be present during the remedial actions with the frequency assigned to the original inspection requirements. Upon completion of any remedial actions, the SI notifies the Designer and the Owner that the work is ready for reevaluation.

• SI shall keep separate his time spent to review corrected deficiencies. Owner’s special inspection costs incurred after identification of the initial deficiency will be reimbursed to the Owner by the Contractor at the conclusion of the project via deductive change order.

• The Special Inspector shall attend monthly meetings during phase of construction special inspections are required.

Special inspection will be required to follow all requirements of Chapter 8 of the State of North Carolina Department of Administration State Construction Office Special Inspections Guidelines.

**CONSTRUCTION MATERIALS TESTING**

The Independent Testing Lab (ITL) will be responsible for but not limited to performing:

* Soil density testing
* Foundation bearing
* Concrete sampling and testing (foundations and slabs)
* Structural steel testing and inspection not covered by Article 112.2m3 of the North Carolina State construction manual as Designer’s responsibility (bolt torquing and structural testing)
* Laboratory testing of soils and concrete; engineering and review; and reporting
* Roofing
* Asphalt
* Paint

During Pre-construction Phase

* Participate in preconstruction meeting.

During Construction Phase

* The ITL provides tests as outlined in the contract specifications.
* The ITL may provide special inspections services as an Agent of the SI, under contract with the SI.
* The ITL may provide special inspection services under contract directly with the Owner or Designer.
* Distribute documentation as agreed upon in preconstruction meeting.

**UNC CHARLOTTE**

**Residence Hall Phase XIV**

**Code 41226 Item 309**

**The FWA Group**

**Gary Lang - Designer**

**South Entrance Intersection Improvements**

**Code 41326 Item 310**

**Kimley – Horn Associates**

**Ben Taylor - Designer**

**CONSULTANT’S SUPPLEMENTAL INFORMATION**

**Instructions**: Provide information listed below. One person may be assigned to more than one responsibility. Make additional sheets for secondary choices if the firm has several employees who may fulfill one responsibility. In addition to this form, design firms are encouraged to submit resumes for all personnel who will work on the project. This information is important to the University and should accompany submittals. This form should be attached to your cover letter or located in the front of your submittal. **Do not alter the format of this form.**

**PROJECT ENGINEER IN CHARGE**.

Name

Office Location (City) Licenses \_\_\_\_\_\_\_\_\_\_\_\_\_

List of most recent North Carolina State-owned projects on which this person has participated:

Provide resume.

 **%**

**Most Recent NC Projects** **NC SCO ID# Comp.** **Location Responsibility**

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**ENGNEERING TECHNICIAN** (The person who will be onsite throughout the project).

Name

Office Location (City) Licenses \_\_\_\_\_\_\_\_\_\_\_\_\_

List of most recent North Carolina State-owned projects on which this person has participated:

Provide resume.

 **%**

**Most Recent NC Projects** **NC**  **SCO ID# Comp.** **Location Responsibility**

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**ENGNEERING TECHNICIAN** (The person who will be onsite throughout the project).

Name

Office Location (City) Licenses \_\_\_\_\_\_\_\_\_\_\_\_\_

List of most recent North Carolina State-owned projects on which this person has participated:

Provide resume.

 **%**

**Most Recent NC Projects** **NC**  **SCO ID# Comp.** **Location Responsibility**

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**CERTIFIED WELDING INSPECTOR**

Name

Office Location (City) Licenses \_\_\_\_\_\_\_\_\_\_\_\_\_

List of most recent North Carolina State-owned projects on which this person has participated:

Provide resume.

 **%**

**Most Recent NC Projects** **NC**  **SCO ID# Comp.** **Location Responsibility**

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**CERTIFIED STRUCTURAL STEEL INSPECTOR**  (The person who will be onsite throughout the project).

Name

Office Location (City) Licenses \_\_\_\_\_\_\_\_\_\_\_\_\_

List of most recent North Carolina State-owned projects on which this person has participated:

Provide resume.

 **%**

**Most Recent NC Projects** **NC**  **SCO ID# Comp.** **Location Responsibility**

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**CERTIFIED ROOFING INSPECTOR**  (The person who will be onsite throughout the project).

Name

Office Location (City) Licenses \_\_\_\_\_\_\_\_\_\_\_\_\_

List of most recent North Carolina State-owned projects on which this person has participated:

Provide resume.

 **%**

**Most Recent NC Projects** **NC**  **SCO ID# Comp.** **Location Responsibility**

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**CERTIFIED SPECIAL INSPECTOR**  (The person who will be onsite throughout the project).

Name

Office Location (City) Licenses \_\_\_\_\_\_\_\_\_\_\_\_\_

List of most recent North Carolina State-owned projects on which this person has participated:

Provide resume.

 **%**

**Most Recent NC Projects** **NC**  **SCO ID# Comp.** **Location Responsibility**

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