This ADDENDUM is to be a part of the contract documents and modifies and takes precedence over the original bid documents, as noted below and in any attached documents. Original items of the plans and specifications that have been modified, amended, voided or suspended through previous addendums, shall remain in effect. It is the responsibility of the Bidder to notify and/or distribute this ADDENDUM to those sub-bidders who have received prints or digital files. The Bidder is to acknowledge receipt of this ADDENDUM in the space provided on the Bid Form.

GENERAL INFORMATION

- All work associated with the Atkins Library Building, Kennedy Building and McMillian Greenhouse is removed from this bid package. The utilities crossing Craver Road, 5'-0" beyond the curb (both North and South) of Craver Road, is by others and is not a part of this contract. All chilled water piping is by others and is not a part of this contract.

DRAWING MODIFICATIONS

- Revise sheet GI001 TITLE SHEET as follows:
  - Under the “Scope Summary” chart remove these scope items:
    - 1. Atkins Library Building
    - 4. Kennedy Building
    - 6. McMillan Greenhouse

- Delete the following drawings sheets in their entirety from the drawing set and remove reference to them from the sheet index:
  - GI100  ATKINS LIBRARY CODE SUMMARY
  - GI400  KENNEDY CODE SUMMARY
  - GI600  MCMILLAN GREENHOUSE CODE SUMMARY
  - ME004  STEAM DIAGRAMS
  - ME008  CONTROLS
  - ME100  ATKINS MECHANICAL-ELECTRICAL PLANS
  - ME400  KENNEDY MECHANICAL-ELECTRICAL PLANS
  - ME600  MCMILLAN MECHANICAL-ELECTRICAL PLANS
• Replace the following sheets with the attached revised sheets:
  o C-100  DEMO AND EROSION CONTROL PLAN
  o C-200  LAYOUT PLAN
  o C-300  GRADING PLANS
  o C-400  UTILITY PLANS
  o C-401  UTILITY DETAILS
  o ME001  MECHANICAL LEGENDS AND NOTES
  o ME006  ELECTRICAL SCHEDULES AND DETAILS
  o ME200  CAMERON MECHANICAL ELECTRICAL PLANS
  o MES01  MECHANICAL-ELECTRICAL SITE PLAN AND DETAILS

• Revise sheet ME003 as follows:
  o Alter the Pump Schedule by deleting in their entirety, pumps P-5 and P-6.
  o Alter the Expansion Tank Schedule by deleting in its entirety, expansion tank ET-1
  o Alter the Air Separator Schedule by deleting in its entirety, expansion tank AS-1
  o Alter the pipe insulation thicknesses schedule so the thickness for steam piping 1-1/2 inch and greater is 3”, not 2”.
  o Delete the following equipment schedules in their entirety:
    ▪ Hot Water Unit Heater Schedule
    ▪ Steam Unit Heater Schedule
    ▪ Boiler Feedwater Assembly Schedule
    ▪ Blowdown Separator Schedule
    ▪ Steam Boiler Schedule
    ▪ Natural Gas Condensing Type Boiler Schedule
    ▪ Fan Schedule

• Revise sheet ME010 as follows:
  o Add “General Notes” from Sheet ME011.
  o Add “Controls Contractor Coordination” from Sheet ME011.

PROJECT MANUAL MODIFICATIONS

• Modify 000110 – Table of Contents as follows:
  o 003126 Hazardous Materials - Delete the following reports:
    ▪ NESHAP Asbestos Survey Report – Atkins Mechanical Rooms and Atkins Stacks.
    ▪ NESHAP Asbestos Survey Report – Kennedy Mechanical Room, IT Services Offices, and Hallway Corridor.
  o 042200 Concrete Unit Masonry – Delete section.

• Modify 000115 – List of Drawing Sheets deleting drawings listed in the “Drawing Modifications” portion of this addendum.
Delete the following specification sections:
  - 000107 Seals Page: Delete unsigned page only.
  - 042200 Concrete Unit Masonry
  - 233423 HVAC Power Ventilators
  - 235216 Condensing Boilers
  - 235223 Steam Boiler Vertical Multiport
  - 235223.13 Steam Boiler Vertical
  - 238239.16 Propeller Unit Heaters

REQUEST FOR SUBSTITUTION or APPROVED EQUAL PRODUCT MANUFACTURERS
Manufacturers below, not previously listed in the Construction Documents, have been approved to participate in the project based on submitted data. Being added to the list of approved manufacturers does not relieve the manufacturer or their product(s) from meeting the minimal performance requirements set forth in the Bid Documents.

  - No requests now.

QUESTIONS AND ANSWERS

1. **Hot Water Valves** (Drawing Sheet C-400): Provide specifications and details on hand holes for 10” heating hot water valves shown at the temporary boiler trailers.

   **Response:** The requirements for the below grade valves are described on drawing ME001. The drawings state to provide valves below grade with extensions and donut and valve box. Typical valve box detail has been added on drawing C-401.

2. **Heat Trace at Temporary Trailers** (Detail 3/MES01): Will heat tracing be needed for hot water piping above grade at temporary trailers locations? If so, please provide watts for heat tape.

   **Response:** Heat tracing is not required for the heating water pipe.

3. **Flushing** (Drawing Sheet ME001): With the method of flushing specified will this not cause the inner piping to corrode before set into service? On earlier projects, at UNCC, the mechanical contractor installed the piping system and hydro flushed then new piping system before connecting to existing systems.

   **Response:** Per UNCC personnel, flush system per UNCC Guidelines and per the drawings as described on drawing sheet ME001.

4. **HHWS/R Piping** (Detail 1/MES01):
a. **Main Walkway**: Detail shows connecting new 10” HHWS/R piping, at 36” grade, to existing 6” HHWS/R that shows no grade.

b. **McEniry Connection**: Detail shows connecting new 6” HHWS/R piping, at a 36” grade, to existing 6” HHWS/R that shows no grade.

c. **Cameron Connection**: Detail shows connecting new 4” HHWS/R piping, at a 36” grade, to existing 6” HHWS/R that shows no grade. Please provide a detail of what type of connections required.

d. **Over Pipe Connection/ Under Pipe Connection**:
   i. Over Pipe Connection will require a vent.
   ii. Under pipe connection will require a drain.

   **Response**: The pipe connections will need to be field coordinated after the exact depth of the existing piping and any other existing utilities within close vicinity are identified. The preference is to use a over-pipe connection with an air vent in lieu of a under-pipe connection with a drain.

5. **A/C Unit (Drawing Sheet C-050)**: Picture shows an outdoor A/C unit at location of new underground hot water piping to be installed. There is no mention of relocating this A/C unit. During the walk-thru there was mention of relocating the underground hot water piping. Provide information of what will be needed. Relocate A/C unit or relocate underground piping so subcontractors can estimate accordingly.

   **Response**: The underground piping enters Cameron in a storage room. There should be sufficient linear wall space to locate the pipes and not disturb the existing AC unit. The exact location of where the pipes shall enter the building will need to be coordinated during the construction phase of the project.

**ATTACHMENTS**

- C-100 DEMO AND EROSION CONTROL PLAN
- C-200 LAYOUT PLAN
- C-300 GRADING PLANS
- C-400 UTILITY PLANS
- C-401 UTILITY DETAILS
- ME001 MECHANICAL LEGENDS AND NOTES
- ME006 ELECTRICAL SCHEDULES AND DETAILS
- MES01 MECHANICAL-ELECTRICAL SITE PLAN AND DETAILS

**END OF BID ADDENDA 01**
GENERAL NOTES:

1. ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING UNLESS OTHERWISE SPECIFICALLY EXEMPTED BY THESE PLANS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.

3. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKERS AND PUBLIC ARE MAINTAINED ACCESS TO THIS DOOR AT ALL TIMES. COORDINATE SEQUENCING WITH UNC CHARLOTTE AND WITH THE APPROPRIATE UTILITY COMPANY.

4. ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING UNLESS OTHERWISE SPECIFICALLY EXEMPTED BY THESE PLANS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.

6. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKERS AND PUBLIC ARE MAINTAINED ACCESS TO THIS DOOR AT ALL TIMES. COORDINATE SEQUENCING WITH UNC CHARLOTTE AND WITH THE APPROPRIATE UTILITY COMPANY.

DEMO NOTES:

1. LOCATE EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES IN AREAS OF WORK. IF LOCATED, REFER TO BALFOUR BEATTY EXTERIOR DEMOLITION AND TYP. CONCRETE COLUMN BFP REMOVE AND STORE LIGHT POLE BRICK STONE PIV WM BRICK CONTRACTOR TO REMOVE, STORE AND REINSTALL ALL HARDSCAPE WITHIN LIMITS OF PIEDMONT CONTRACTOR SHALL PROVIDE A MINIMUM OF 72 HOURS ADVANCE NOTICE TO THE OWNER PRIOR TO THE APPROPRIATE UTILITY COMPANY.

2.7 LANDDESIGN SHALL NOT BE IN CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES COMPANIES, PREVIOUS DESIGN DOCUMENTS, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN EOP.

3.2 LANDDESIGN SHALL BE IN CONTROL OR CHARGE OF, AND SHALL BE RESPONSIBLE FOR PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES COMPANIES, PREVIOUS DESIGN DOCUMENTS, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN EOP.

4.7 LANDDESIGN SHALL NOT BE IN CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES COMPANIES, PREVIOUS DESIGN DOCUMENTS, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN EOP.

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7.2 LANDDESIGN SHALL BE IN CONTROL OR CHARGE OF, AND SHALL BE RESPONSIBLE FOR PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES COMPANIES, PREVIOUS DESIGN DOCUMENTS, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN EOP.

8.7 LANDDESIGN SHALL NOT BE IN CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES COMPANIES, PREVIOUS DESIGN DOCUMENTS, AND WHERE POSSIBL...
1. Construct a stabilized entrance pad of fine, uniform material such as washstone or railroad ballast. The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public streets or existing pavement. This may require periodic top dressing with additional stone as needed.

2. Landscaping plans shall show the locations of all tree protection zones. Prefabricated silt fences are not acceptable. Stabilized entrance surfaces shall be constructed with a minimum of 2" to 3" diameter washstone or railroad ballast located where traffic will not cross from the construction site onto a public street.

3. Tree protection zones shall be constructed to prevent contamination of sediments into drainage systems.

4. If wire mesh is used, fence post spacing may be 8' maximum.

5. Minimum depth of water behind fence shall not exceed 1.5 feet.

6. Drainage area shall be less than 1/4 acre per 100 feet of fence.

7. Exit points shall be established for emergency access to the jobsite.

8. Inspections of silt fences shall be performed once weekly and after rainfall events. Repairs shall be made immediately.

NOTES:
- Use 14 gauge mesh with 6" spacing for reinforcement of fabric.
- Use 19-gauge hardware cloth and gravel inlet protection.
- Use 2-1/2" diameter washstone or railroad ballast to construct entrance pads.
- Use non-woven geotextile fabric for silt fence construction.
- Use compacted fill or gravel for backfill.
- Use 1.33 lb/lf steel posts for fence support.
- Use 1.4' extension of fence into the ground for stabilization.
- Use 18" filter fabric or compacted crusher-run stone as a base for the construction entrance.

SILTFENCE

- SMA or rubberized asphalt shall be used for the construction entrance.
- Use 6" minimum filter fabric or compacted crusher-run stone as a base for the construction entrance.

STABILIZED CONSTRUCTION ENTRANCE

- Use 20% (max.) elongation for required silt fence materials.
- Use 75% (min.) physical property for required silt fence materials.
- Use 85% (min.) filtering efficiency for required silt fence materials.
- Use 100% (min.) tensile strength at physical property for required silt fence materials.
- Use 25 lb./lin. inch (max.) strength for required silt fence materials.
- Use 30 lb./lin. inch (min.) strength for required silt fence materials.
- Use 50 lb./lin. inch (min.) strength for required silt fence materials.
- Use 150 lb./lin. inch (min.) strength for required silt fence materials.
- Use 20% (max.) elongation for required silt fence materials.
- Use 85% (min.) filtering efficiency for required silt fence materials.
- Use 100% (min.) tensile strength at physical property for required silt fence materials.
- Use 50 lb./lin. inch (min.) strength for required silt fence materials.
- Use 75 lb./lin. inch (min.) strength for required silt fence materials.
- Use 100 lb./lin. inch (min.) strength for required silt fence materials.
- Use 20% (max.) elongation for required silt fence materials.
- Use 85% (min.) filtering efficiency for required silt fence materials.
- Use 100% (min.) tensile strength at physical property for required silt fence materials.
- Use 50 lb./lin. inch (min.) strength for required silt fence materials.
- Use 75 lb./lin. inch (min.) strength for required silt fence materials.
- Use 100 lb./lin. inch (min.) strength for required silt fence materials.
- Use 20% (max.) elongation for required silt fence materials.
- Use 85% (min.) filtering efficiency for required silt fence materials.
- Use 100% (min.) tensile strength at physical property for required silt fence materials.
- Use 50 lb./lin. inch (min.) strength for required silt fence materials.
- Use 75 lb./lin. inch (min.) strength for required silt fence materials.
- Use 100 lb./lin. inch (min.) strength for required silt fence materials.
- Use 20% (max.) elongation for required silt fence materials.
- Use 85% (min.) filtering efficiency for required silt fence materials.
- Use 100% (min.) tensile strength at physical property for required silt fence materials.
- Use 50 lb./lin. inch (min.) strength for required silt fence materials.
- Use 75 lb./lin. inch (min.) strength for required silt fence materials.
- Use 100 lb./lin. inch (min.) strength for required silt fence materials.
- Use 20% (max.) elongation for required silt fence materials.
- Use 85% (min.) filtering efficiency for required silt fence materials.
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- Use 50 lb./lin. inch (min.) strength for required silt fence materials.
- Use 75 lb./lin. inch (min.) strength for required silt fence materials.
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- Use 100 lb./lin. inch (min.) strength for required silt fence materials.
LAYOUT PLAN

LEGEND

- Repair Area
- Chain Link Fence
- UNCC Standard
- Brick Paver
- Replace Paver Sidewalk
- Reuse Existing Pavers
- Reinstall Lamp Post, TYP.
- Prop. Flat Concrete Pad for Transformer and Panelboard. See Utility Sheet.
- Remove Existing Asphalt and Install Concrete Pad on Compacted Subgrade
- Repair Pavement and Landscape
- Prop. Jersey Barrier.
- Coordinate Fence Placement with UNC Charlotte Construction Manager if needed.
- Prop. 20'x8' Pump House Trailer
- Maintain Access to 49ER Offices at all times
- Maintain Access to Overhead Door. Coordinate with UNC Charlotte Construction Manager
- Prop. Temp Fence.
- Prop. Paver Sidewalk.
- Reuse Existing Pavers
- Addendum #1
- 11/20/2017

LAYOUT NOTES:

1. At time of staking, contractor to contact landscape architect for digital site plan file for coordination.
2. Should any discrepancies or errors between coordinate points and dimensions or omissions of critical staking information be discovered, contact the landscape architect immediately for a coordinated solution.
3. All dimensions and radii are to the back of curb unless otherwise noted.
4. All light poles should be turned over to owner for salvage unless they are outdated models. Check existing light poles and confirm with UNC Charlotte Construction Manager if these poles should be salvaged.
5. Remove and store all pavers for reinstallation as noted. Verify condition of pavers is acceptable with UNC Charlotte Construction Manager.