1. **GENERAL**
   
   A. Contractor shall schedule and control all work persons employed on the Project. Contractor shall instruct all workers to prevent tracking dirt and debris into existing buildings. Profanity, inappropriate dress, or inappropriate conduct shall not be permitted on any Project. Owner reserves the right to have the Contractor remove from the Project anyone who, in the sole opinion of the Owner, exhibits such behavior.
   
   B. UGA Football Games: For projects in Athens-Clarke County, the Contractor shall stop all work commencing at 3:00 pm Friday before UGA home football games and shall not work the Saturday of home football games. The construction site shall be secured to prevent unauthorized persons from entering the site. See the UGA Athletic Association webpage, [www.georgiadogs.com](http://www.georgiadogs.com) to obtain information concerning the current schedule.
01 14 13
ACCESS TO SITE – RIGHT OF ENTRY

1. GENERAL
   A. The Owner retains the right to enter the construction limits to inspect and/or repair existing utilities, structures, and property whenever necessary. Owner shall coordinate non-emergency access 24 hours in advance.
   B. For projects in Athens-Clarke County, Contractors shall fill out the temporary ID card request form below to receive security access to existing UGA buildings that require a UGA ID access card.
   C. The Contractor shall make the construction site available and accessible to UGA FMD and any other Owner-retained Contractors to complete work within the site to include repairs and renovation of existing buildings, utilities, hardscape, and landscape. Contractor shall coordinate his schedule with other Contractors as approved by Owner to ensure a complete and usable facility.
REQUEST FOR
TEMPORARY ID CARD
CONTRACTOR

Sponsor Name: ___________________________
Sponsor Department: _______________________
Department Address: _______________________
Sponsor Telephone: ________________________
Sponsor MyID: ___________________________@uga.edu

RETURN TO: UGACard Office
TO: 309 Tate Student Center
FAX: 706 542-0070

Contractors for the University campus whose stay is for an extended but defined period of time, generally from one month to one year, and for a specific academic or administrative purpose, similar to work being performed by regular UGA faculty or staff, will be eligible for a sponsored Contractor ID badge.

Included in this category would be individuals whose work is based on campus but who are not part of the UGA master payroll/ personnel data base. (Those excluded from this category would include students, conference participants, entertainers, law enforcement agencies, and most state and federal employees.) Individuals in this category are not eligible for University services (Contractors are not eligible for discounted athletic tickets). Contact the specific service provider if there are any questions concerning the use of this card. Some University services require a participation fee.

UGACard DATABASE INFORMATION

Full Name of Contractor: __________________________________________________________
Last __________ First __________ MI __________

Date of Birth __________ Gender _____ Social Security Number: ________________________
*Assigned Number: ________________________

For foreign contractors:
Country of citizenship __________________ Has a social security number been applied for?____
* The UGACard Office will assign special identification numbers to foreign visitors who do not apply for social security numbers.

Purpose of work on UGA Campus: ______________________________________________________

Job title or position: _______________________ Contractor Company Name ______________________

Dates Contractor Will Be On Campus: Beginning Date __________ Ending Date __________

Individuals in the Contractor Database may be renewed annually from July 1 through June 30.

UGA Campus Address ________________________________ Campus Phone #: ________________

******************************************************************************

Department Head Approval: __________________________ Phone: ______________ Date: __________

Dean or Vice President Approval: __________________________ Phone: ______________ Date: __________

>>>Submit this request at least five days prior to coming to UGACard Office to have card made<<<

>>>Application will NOT be accepted without Sponsor MyID and Approving Signatures<<<

******************************************************************************

UGACard Office Use Only
Reviewed and Approved by: __________________________ Date: __________ Photo Date: __________
Entered in Database by: __________________________ Date: __________ Revised 06/12
PAYMENT PROCEDURES

1. GENERAL
   A. Related sections:
      i. 01 29 73 – Schedule of Values
      ii. 01 74 19 – Construction Waste Management & Disposal
      iii. 01 81 00 – Facility Performance Requirements
   B. Prior to being able to receive compensation for services, Design Professionals and Contractors, who have not previously contracted with UGA, must complete the UGA new vendor electronic registration and be current in the UGA system. The new vendor electronic registration is available at https://onesource.uga.edu/news/vendor_registration_information/.
   C. Prior to the Design Professional receiving full compensation for Schematic Design and Design Development/Preliminary Design, the requirements of Section 01 81 00 Facility Performance Requirements shall be met and the Section 01 81 00 Facility Performance Requirements’ checklist submitted.
   D. Application for Payment Procedure for Contractor, Design-Build, and Design-Bid-Build project delivery methods:
      i. Contractor shall email a .pdf copy of the Exhibit K Application for Payment, and all associated back-up documentation as required by the Contract to the Design Professional and to the Project Manager for review / approval. In addition to Exhibit K Application for Payment form in the Contract, the Contractor shall provide an Application and Certificate of Payment in the America Institute of Architects (AIA) format with corresponding schedule of values breakdown. Exhibit K Application for Payment must be executed as per the Contract; however, the additional Application and Certificate for Payment in an AIA format is not required to be signed and notarized as it is provided as reference information to assist the Design Professional and Project Manager in reviewing Application for Payment back-up documentation.
      ii. Within three days of receipt of the Application for Payment, the Design Professional will either approve the Application for Payment and forward to invoiceoua@uga.edu as well as the Project Manager, or will provide comments to be addressed by the Contractor.
      iii. Once all comments are addressed to the satisfaction of the Design Professional and Project Manager, the Design Professional will sign and forward a .pdf copy of the pay application and supporting information to invoiceoua@uga.edu and the Project Manager, also copying in the Contractor. OUA office will then upload the electronic pay application to DocuSign for approval and signature by the Project Manager.
      iv. Complete Section 01 74 19 Construction Waste Management & Disposal Report and include with monthly Application for Payment.
   E. Application for Payment Documentation for Contractor and Design-Builder projects:
      i. For the draft version of the Application for Payment, the Contractor shall include with it copies of all invoices, labor billings, Subcontractor applications for payment and executed Subcontractor’s interim lien releases.
i. The Contractor shall maintain a Contingency Log that is updated and submitted with each Application for Payment that shows any costs that have been transferred from the contingency line item into all other line items with an explanation of each transfer.

iii. Upon approval of a Component Change Order or Change Order, the Contractor shall distribute all Component Change Order or Change Order costs among the respective line items against which the actual costs will be charged. Although Component Change Orders and Change Orders are frequently approved on a lump sum basis so as to be incorporated into the GMP, billing for the associated work is on a cost-plus basis with a maximum price and if the total value of the change order funds is not spent, the remaining value of the Component Change Order and/or Change Order will be returned to contingency funds.

F. Application for Payment Procedure for contracts held by GSFIC:
   i. Submit per GSFIC requirements

G. Application for Payment Procedure for Design Professional, Consultant, and Purchase Order work:
   i. Submit .pdf format invoices to invoiceoua@uga.edu and Project Manager
1. **GENERAL**

   A. Related sections:
      i. 01 29 00 – Payment Procedures

   B. The Contractor shall submit a draft of the Schedule of Values (SOV) to the Project Manager and Design Professional for approval prior to the first pay request being submitted.

   C. The SOV shall include the following column headings at a minimum: original scheduled value, change orders, revised schedule of values, previous billings, current billings, stored materials, total completed and stored to date, and retainage.

   D. Contractor Construction Overhead Costs (General Conditions) shall be listed as a separate line item within the SOV.

   E. Insurance shall be listed as a separate line item within the SOV.

   F. Performance and payment bonds shall be listed as a separate line item within the SOV.

   G. For projects implementing Building Information Modeling (BIM), there shall be a separate line item within the SOV for BIM related costs.

   H. The following items, specific to Contractor and Design-Builder project delivery methods, shall be listed as separate line items within the SOV:
      i. Pre-construction Overhead Costs and Expenses (General Conditions)
      ii. Pre-construction Fee
      iii. Construction Fee
      iv. Contractor Contingency

   I. For Contractor and Design-Builder projects, each line of the SOV shall correspond to the Subcontract amount for only one Subcontractor so that the required back-up Subcontractor payment applications matches a specific SOV line item. In the event that there is more than one Subcontract representing a scope of work (for example steel could possibly be subdivided into steel erection, steel fabrication and miscellaneous metals), the SOV should be subdivided accordingly.

   J. For Contractor or Design-Build projects, the change order amounts shall be distributed among each of the separate line items as appropriate to allow for the billings to be tracked against each corresponding subcontractor’s pay request.

   K. For projects awarded on a lump sum basis, the change orders can be added as lump sums on a new line added below the total line for the original base contract amount.

   L. For projects awarded on a lump sum basis, the Fee shall be allocated on a percentage basis among each of the line items.

   M. For projects awarded on a lump sum basis, the SOV should be detailed enough to allow for proper review and analysis of percentages of work complete. For example, electrical should be subdivided into such categories as exterior power, exterior lighting, interior lighting, switchgear and panels, devices, conduit and wiring, telecommunications, fire alarm system, etc.
1. GENERAL
   A. The Contractor shall schedule, at the convenience of the Owner, a Pre-Construction Meeting at least fourteen calendar days prior to beginning any construction. The meeting shall include as a minimum the Contractor’s authorized representative, the Design Professional, and the Owner’s Representatives. The Contractor shall invite the End-User, University utilities and infrastructure representatives as suggested by the Owner, Contractor, Subcontractors, and the Owner’s Testing Agency representatives. For projects with a Land Disturbance Activities permit and/or a NPDES permit, the University of Georgia Environmental Safety Division shall be invited to the pre-construction meeting. The conference shall be held at a time convenient to the Owner and held at the construction site. The conference agenda shall include introduction of key personnel and responsibilities, review of project schedule, job site logistics, contract specifications, contract administration, and University policies and procedures.
1. GENERAL

A. After every design meeting, the Design Professional shall issue a meeting summary within seven calendar days after the meeting date. The meeting summary shall include a list of attendees, the meeting date, topic, and all action items and decisions. The meeting summary shall be sent to the Project Manager as well as to others requested by the Project Manager. The Design Professional shall provide electronic tools (laptops or thumb-drives) necessary to project plans and specifications onto a UGA provided projector screen. The Design Professional shall coordinate with the Project Manager as necessary.

B. After every construction meeting, the Contractor shall issue a meeting summary within seven calendar days after the meeting date. The meeting summary shall include a list of attendees, the meeting date, topic, and all action items and decisions. The meeting summary shall be sent to the Project Manager as well as to others requested by the Project Manager. The Contractor shall provide electronic tools (laptops or thumb-drives) necessary to project plans, specifications, change orders, RFIs, photographs, schedules, etc., onto a UGA provided projector screen. The Contractor shall coordinate with the Project Manager as necessary.
01 31 23
PROJECT WEBSITE

1. GENERAL
   A. For Contractor and Design-Build project delivery methods:
      i. The Contractor shall provide a secure website or web-based file upload/download system to allow transfer of electronic files between the Design Professional, Contractor, and UGA.
      ii. The Contractor shall provide login and password information to UGA personnel as requested by the Project Manager.
   B. For Design-Bid-Build project delivery methods:
      i. The Design Professional shall provide a secure website or File Transfer Protocol (FTP) system to allow transfer of electronic files between the Design Professional, Contractor, and UGA.
      ii. The Design Professional shall provide login and password information to UGA personnel as requested by the Project Manager.
   C. The secure website or FTP system shall be maintained from project inception through Final Completion.
   D. As a minimum the Design Professional shall make available for download drawings and specifications at each review milestone and as requested by the Project Manager.
   E. After construction documents are issued for construction, the Design Professional shall make available for download any revisions including supplementary sketches and documents.
      i. The drawings shall be both in a CAD file format “.dwg” and a portable document format “.pdf”. CAD files must have x-refs bound into the file.
      ii. The specifications shall be able to be read with Microsoft Word and allow for a global search.
01 32 16
CONSTRUCTION PROGRESS SCHEDULE

1. **GENERAL**
   
   A. Related sections:
      
      i. 01 35 46 – Indoor Air Quality – During Construction
   
   B. Schedules shall include timeframes required to ensure that off-gassing is substantially complete prior to occupancy. Refer to Section 01 35 46 Indoor Air Quality – During Construction.
   
   C. Schedule shall include delivery and installation of furniture (regardless of whether it is Owner provided or Contractor provided) per direction of the Project Manager.
   
   D. Schedule shall include final in-place mockups of interior paint samples with final light fixture and lamps in place.
   
   E. Schedule shall include date of required activation of data connections for the digital controls system.
   
   F. Schedule shall include adequate time for the completion of testing, adjusting, and balancing for HVAC prior to Material Completion. The Contractor shall take the time for resolution of these issues by the responsible party into account in the schedule. A ‘contingency’ of an additional week or two should be incorporated into the balancing plan schedule to accommodate additional time required for the responsible party to correct any minor issues preventing design performance of the building.
   
   G. The schedule shall include 80% and 100% fire marshal inspections.
   
   H. The schedule shall include training which shall be completed prior to Material Completion.
   
   I. The schedule shall include preparation and review of closeout submittals. Closeout submittals shall be submitted at or prior to Material Completion.
1. GENERAL
   A. Related sections:
      i. 00 00 03 – Modifications to General Requirements for BOR Contracts
      ii. 01 77 00 – Project Closeout
   B. Any costs associated with submittals shall be included in the Contractor Overhead Cost or Base Bid.
1. **GENERAL**
   
   A. **Connections to Existing Utilities**: All utility work involving connections to existing utility systems (including but not limited to: electrical, communications, water, gas, steam, chilled water, storm water & sanitary systems) shall be coordinated with the Owner. Contractor shall inform the Owner prior to any proposed shutdown, outage or work of any nature which will interrupt or disturb any building utility system or equipment served by that system. A minimum of 72-hours’ notice is required for the Owner to make all necessary arrangements for this work, and such shutdowns shall be scheduled at the convenience of the Owner.

   B. **Fire Alarm And Fire Sprinkler Deactivation (Less Than 4 Hours At One Time)**: If the Project has an existing fire alarm system and or fire sprinkler system that will be encountered during the work that will from time to time require temporary deactivation (for less than 4 hours), the Contractor shall contact the Owner’s Representative a minimum of 72 hours in advance to coordinate deactivation request. The Contractor shall also make the following notifications for projects in Athens-Clarke County:
      - University of Georgia Environmental Safety Division, Fire Safety (706) 369-5706
      - University of Georgia Police Department (706) 542-5813
      - University of Georgia Fire Alarm Monitoring Company, Fire Protection Associates (706) 548-8659
      - University of Georgia specific facility affected

   C. **Fire Alarm and Fire Sprinkler Deactivation (More Than 4 Hours At One Time)**: If a sprinkler or fire alarm system on the campus of the University of Georgia is out of service for more than four hours, a fire watch must be implemented according to the following procedures.
      - **Notifications for projects in Athens-Clarke County**
         - University of Georgia Environmental Safety Division, Fire Safety (706) 369-5706
         - University of Georgia Police Department (706) 542-5813
         - University of Georgia Fire Alarm Monitoring Company, Fire Protection Associates (706) 548-8659
         - University of Georgia specific facility affected
      - **Fire Watch Duties**
         - Person(s) on fire watch duty should not have any other responsibility during the time the fire watch is in effect and must keep a cell phone in his/her possession at all times during the fire watch.
         - Patrol the entire area affected by the service outage every 30 minutes and look for any signs of fire, smoke and any activities that could create a fire.
         - Keep a log of all fire watch patrols.
         - Maintain fire watch for one hour beyond the last time that welding operations occurred.
         - If a fire is discovered:
            1. Activate the building alarm system if in service.
2) Call 911 to report the fire
3) If the building fire alarm system is out of service, ask the campus police to assist in the evacuation of the building.
4) Notify others on the floor of the fire.
5) Do not attempt to fight the fire unless you have been trained on the use of portable fire extinguishers.

f. Once the need for a temporary fire watch has passed and the fire protection system has been fully restored, the person on fire watch duty will cancel the fire watch by contacting the UGA Environmental Safety Department, the UGA Police Department, the UGA Fire Alarm monitoring company, and the UGA specific facility that is affected by the fire watch.

iii. All costs associated with the fire watch shall be included in the Cost of the Work or Base Bid.

D. UGA PM must contact the UGA Police Department Communications Center by phone (706-542-0090) to inform them of any work that may interfere with existing alarm operations before work starts.
01 35 13.02
SPECIAL PROJECT PROCEDURES – ROOFING & HOT WORK

1. GENERAL
   A. Related sections:
      i. 00 00 03 – Modifications to General Requirement of BOR Contracts
   B. Hot work permits are not required for new construction or full building renovations (i.e. renovations during which the building is completely vacated and turned over to the Contractor).
   C. Roofing & Hot Work for Additions & Renovations: To complement the requirements of previously cited NFPA-241, regarding Contractor’s duties during the execution of work under this contract, the Owner requires that the Contractor comply with the following guidelines for all roofing projects, additions and renovations, and all other projects which require hot work. Hot work includes any construction activity that presents a source of ignition, such as welding, burning / cutting, heating, brazing and soldering. Contractor shall, prior to the start of work at the site, develop a documented fire safety plan for all areas included under the Contract. Such plan shall be the result of a complete assessment by the Contractor to minimize the potential for damage as a result of an uncontrolled fire and must be submitted to the Owner’s designated fire safety representative for review and approval. The fire safety plan must include, but need not be limited to, the description and documentation of each of the following elements:
      i. Control of Combustibles
         a. Contractor shall visually inspect entire project location to identify combustible and non-combustible construction. Contractor shall identify sealed, inaccessible combustible spaces.
         b. Contractor shall identify and relocate all movable combustibles at least 35 feet horizontally from the work site. Where not possible, Contractor shall protect such combustibles with flame-proof covers or otherwise shield them with metal fire resistant guards or curtains.
      ii. Hot Work Permit
         a. Contractor shall comply with the Owner’s documented hot work permit system, including the following minimum requirements:
            1) Contractor shall identify names and locations of fire watches for all hot work operations.
            2) Contractor shall identify timing and duration of all proposed hot work. Permits shall be valid for time specified on permit, as appropriate for the project needs.
            3) Contractor shall employ dedicated fire watches, which shall be located in direct visual contact of all areas of hot work operations including the underside of combustible attic spaces. If area of proposed work is not accessible from beneath, Contractor shall not under any circumstances use torches or direct flame.
            4) Contractor shall maintain a daily log of activities, including accurate project records of all fire watch activities.
5) Contractor shall assign responsibility for overseeing fire watches to specific individual(s) whose only duty is to watch for and to prevent fires occurring due to hot work. This individual(s) shall be listed on permit as responsible.

6) Each Contractor’s fire watcher shall employ an operable cellular phone for immediate notification of fire department in the event of a fire.

7) Contractor shall be responsible for immediate fire department notification in case of fire.

8) Contractor shall continue fire watches for at least one hour after any hot work operations are completed.

9) Contractor shall be responsible for immediate fire department notification in case of fire.

b. Contractor shall comply with the following minimum suppression requirements:

1) Contractor shall provide 10 lb. multi-purpose dry chemical fire extinguishers within 20 feet of the operation.

2) Where hot work, if approved by the Owner’s designated fire safety representative, is necessary near combustible attic spaces, Contractor shall provide a charged hose line from building standpipe or hydrant. This requirement shall be coordinated with the Owner’s fire safety coordinator to ensure standpipe or hydrant are available and that person(s) operating the charged hose line is properly trained and qualified to operate the hose.

3) Contractor’s fire watchers shall have fire extinguishing equipment readily available, and shall be trained in the proper use of all such equipment; proof of such training shall be included in fire safety plan.

iii. Fire Watch: If fire watches are required to be employed, the Contractor shall retain an independent consultant to provide a system of documented audits of compliance with fire watch provisions and NFPA 241. Contractor shall select the consultant from a list of approved firms furnished by the Owner at the pre-construction meeting. The cost for fire watch provisions, if applicable, shall be included in the Contractor Overhead Cost or Base Bid. Contractor shall note that the approval of the Contractor’s fire safety plan by the Owner’s fire safety representative does not relieve the Contractor from any duty to protect the Owner’s property during the execution of work under this Contract. The Owner shall make available to the Contractor, upon written request, all documented information in the Owner’s possession concerning the construction of the building or buildings included under this contract. The Contractor is ultimately responsible for minimizing the potential for fire damage while performing all work under this contract. If fire watch is approved, Contractor shall provide the fire watch contact information to University of Georgia Police Department 24 hours in advance of the fire watch.
1. GENERAL
   A. Contractor shall provide barriers and warning signs to delineate the construction area and to designate the “Danger” area. This danger area shall be the area immediately surrounding the location where the Project is being completed. The exact location of the barriers shall be determined by the Contractor and coordinated with the Owner prior to beginning construction. The barriers shall be placed by the Contractor to warn and protect persons from any hazards, which may occur during the course of construction. The Contractor may elect to erect a fence to protect the limits of construction and to secure materials kept on site. All windscreens utilized shall be black in color and devoid of any company logos or other markers, and must be discussed with the Project Manager prior to installation. Associated costs shall be included in the Contractor Overhead Cost or Base Bid.
1. **GENERAL**
   A. Related sections:
      i. 01 32 16 – Construction Progress Schedule:
      ii. 06 00 00 – General Wood, Plastics, and Composites Requirements
      iii. 09 00 00 – General Finishes Requirements
      iv. 09 20 00 – Plaster and Gypsum Board
      v. 09 60 00 – Flooring
      vi. 09 68 00 – Carpeting
      vii. 09 91 23 – Interior Painting
      viii. 12 00 00 – General Furnishings Requirements
   B. Tobacco Free
      i. In accordance with the Tobacco and Smoke-Free Campus Policy of the Board of Regents of the University System of Georgia, the use of all forms of tobacco products is prohibited on property owned, leased, rented, in the possession of, or in any way used by the University. “Tobacco Products” is defined as cigarettes, cigars, pipes, all forms of smokeless tobacco, clove cigarettes and any other smoking devices that use tobacco such as hookahs or simulate the use of tobacco such as electronic cigarettes. Further, this policy prohibits any advertising, sale, or free sampling of tobacco products on University property unless specifically stated for research purposes. This prohibition includes but is not limited to all areas indoors and outdoors, buildings and parking lots owned, leased, rented or otherwise by the University. The use of tobacco products is prohibited in all vehicles – private or public – located on University property. Additionally, all events hosted by the University or by outside groups on behalf of the University shall be tobacco-free. Failure to comply with this policy by Contractor or Subcontractor shall constitute a material breach of these terms.

2. **PRODUCTS**
   A. Low volatile organic compound (VOC) materials shall be used within the interior weatherproofing of the facility; zero when available. Provide documentation to the Project Manager as requested. If there is a conflict between the VOC identified listed in the documents listed below, the one that allows the least VOCs shall apply.
      i. Architectural coatings shall not exceed VOC limits established by the South Coast Air Quality Management (SCAQMD) Rule 1113, in effect January 1, 2004.
      ii. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and any other primers shall not exceed VOC limits established by the South Coast Air Quality Management (SCAQMD) Rule 1168, in effect January 1, 2004.
v. Hard surface flooring products shall be FloorScore certified (current as of the date of this Standard).
vi. Carpeting, including pad or backing, shall meet or exceed the requirements of Green Label Plus, set by the Carpet and Rug Institute.
vii. Composite wood and agrifiber products that are part of the base building elements (not furniture or seating) shall not contain any added urea-formaldehyde resins.
viii. New furniture and seating shall be certified by GREenguARD Environment Institute.

3. EXECUTION
   A. Maintain minimum MERV 8 air filters during construction.
   B. Fumes
      i. During the performance of work under this Contract, the Contractor may elect to engage in activities, or to use methods and materials, that result in fumes being generated and dispersed in occupied areas. In addition to complying with all codes and ordinances having jurisdiction, Contractor shall perform his work in a manner that shall minimize or completely eliminate the probability of such an occurrence. However, if fumes of any nature are generated or released by the Contractor to occupied portions of the building, such fumes shall be contained and exhausted from the spaces in accordance with previously cited codes and ordinances. If any Contractor-generated or Contractor-released fumes spread to occupied spaces, Contractor shall:
         a. Stop work causing fume generation or release.
         b. Contact the Owner’s Representative (for information only).
         c. Determine the nature and extent of fume release.
         d. Purge all areas of these fumes; clean up areas if fumes deposited dirt or particulate matter.
         e. Change work methods to eliminate fumes.
         f. Continue working after steps 1 to 5 have been accomplished.
   C. For facilities that will have portions remain occupied during construction, the Contractor shall develop an indoor air quality management plan in compliance with Sheet Metal and Air Conditioning Contractor’s National Association (SMACNA) Indoor Air Quality Guidelines for Occupied Buildings Under Construction, 2007.
   D. For projects over 10,000 square feet, per the requirements of this section, either building flush-out or demonstration of compliance with indoor air quality air testing requirements is required prior to occupancy. All interior finishes shall be installed. It is preferable for moveable furnishings and partitions, desk systems and workstations to be in place, however, this is not required.
      i. Building flush-out:
         a. Building flush out is required prior to occupancy. If End-Users will begin inhabiting the renovated areas or new facility at Material Completion than building-flush out shall be complete prior to Material Completion. If End-Users will not begin inhabiting the renovated areas or new facility prior to Final Completion, then building flush out shall be complete prior to Final Completion.
b. Building flush out shall be performed after all interior finishes are installed.

c. Following the U.S. Green Building Council guidelines, perform a building flush out that provides 14,000 cubic feet of outdoor air per square foot while maintaining a minimum interior temperature of 60 degrees with a relative humidity of less than 60%.

d. The Design Professional shall calculate how much outside air will be required for flush out and include in the specifications the number of days required for the project mechanical system to flush out the facility and the Contractor shall include the required days in the construction progress schedule.

e. Prior to building flush install all new filtration media.

ii. Air testing:

a. Use protocols consistent with the EPA Compendium of Methods for the Determination of Air Pollutants in Indoor Air.

b. Documented compliance with the following indoor air quality requirement is required prior to occupancy. If End-Users will begin inhabiting the renovated areas or new facility at Material Completion than air testing compliance shall be complete prior to Material Completion. If End-Users will not begin inhabiting the renovated areas or new facility prior to Final Completion, then air testing compliance shall be complete prior to Final Completion.

c. Air testing shall demonstrate that the following maximum concentrations are not exceeded:

1) Formaldehyde 27 parts per billion
2) Particulates (PM 10) 50 micrograms per cubic meter
3) Total VOCs 500 micrograms per cubic meter
4) 4-Phenylcyclohexine 6.5 micrograms per cubic meter
5) Carbon monoxide 9 parts per million
1. **GENERAL**
   
01 41 26.01
RIGHT OF WAY ENCROACHMENT / ROADWAY OWNERSHIP

1. GENERAL
   A. Right of way (ROW) Encroachment / Driveway Permit
      i. The Design Professional is responsible for verifying the sidewalk, driveway, and roadway ownership in the location of the Project. Work in or adjacent to a road that is not owned by the BOR may require a ROW Encroachment permit and/or a driveway permit. The Design Professional is cautioned that many BOR campuses and other groups of areas that appear to be large masses of land owned by BOR, often have roadways with associated right of ways through those land masses that are not owned by the BOR.
   B. Roadway Ownership – UGA Athens Only
      i. The Design Professional can review the map of which roads at the UGA main campus in Athens, Georgia are owned by Athens-Clarke County. The map is located on the UGA OUA website at the following address: https://www.architects.uga.edu/sites/default/files/documents/field/maps/current/ugaownedroads11x17.pdf

Revised July 30, 2024
1. **GENERAL**
   
   **A.** Related sections:
      i. 33 00 00 – General Utilities Requirements
      ii. 33 10 00 – Water Supply Backflow Preventer Assemblies
      iii. 33 30 00 – Sanitary Sewerage Utilities – Sanitary Sewer Collection Systems
   
   **B.** The Design Professional is responsible for identifying which various reviews and permits related to utility permits are required and meeting the design requirements of the entity having jurisdiction for the location of the Project. The Design Professional shall apply for and submit documents for all applicable permits and make design revisions as required until the permits can be obtained.
   
   **C.** The Design Professional shall include the most up-to-date 811 logo on all drawings that call for excavation activity of any kind.
   
   **D.** Utility Owners at UGA, Athens, Georgia Campus
      i. Chilled Water – University of Georgia
      ii. Data Communications – University of Georgia Enterprise Information Technology Services (EITS)
      iii. Electric Power – Georgia Power Company or University of Georgia
      iv. Fire Alarm Systems – University of Georgia (maintenance contract with Fire Protection Associates)
      v. Irrigation – University of Georgia Facilities Management Division Grounds Department
      vi. Natural Gas – Atlanta Gas Light Company or University of Georgia
      vii. Sanitary Sewer – ACC Public Utilities or University of Georgia
      viii. Septic Sanitary System – University of Georgia
      ix. Security & Access Systems – University of Georgia Public Safety Division
      x. Steam – University of Georgia
      xi. Storm Sewer – University of Georgia
      xii. Television Cable – Charter Communications or EITS
      xiii. Voice Communications – AT&T or EITS
      xiv. Water – ACC Public Utilities or University of Georgia
   
   **E.** Locator Notification
      i. The Contractor shall use caution as there may be active utilities in the work area. Utilities are owned by the University of Georgia and other public utility companies. 72 hours in advance of digging, the Contractor shall contact:
         1. Public Underground Utility Locator Service at 1-800-282-7411 or 811 as required by Georgia State Law.
         2. For projects on the University of Georgia on the Athens, Georgia campus, University of Georgia Facilities Management Division Grounds Department at (706) 542-7450 to locate irrigation lines.
      ii. The Contractor shall be liable for all repair costs if he fails to properly notify utility locators as described above. Any utility line damaged by the Contractor which was marked or identified by the Owner of the utility shall be repaired by the Contractor at his own expense. In the event the Owner of the utility elects
to make the repairs with his own work force, the Contractor shall reimburse the Owner of the utility for the cost of repairs.

F. Utilities Furnished

i. Certain utilities, if owned and operated by the University of Georgia, required for work to be performed under this Contract shall be furnished by the Owner at the Contractor’s expense. However, these utilities shall be furnished at the point and in the capacity that they are available adjacent to the construction site. Any utility of different pressure, capacity, type, etc. required by the Contractor that is not available within the area shall be arranged for by the Contractor at his own expense. Any expense involved to the Contractor in extending the utilities from the present location to the point required shall be at the Contractor’s expense and included in the Cost of the Work or the Base Bid.

G. Water Utilities – Public Water Distribution System

i. Any work on the public water distribution system must be approved and inspected by applicable local government offices and must be performed in accordance with the local governmental regulations. In Athens-Clarke County, most water mains, fire hydrants and water meters are under the jurisdiction of The Unified Government of Athens-Clarke County (ACC). All connections to the ACC water distribution system shall be approved and inspected by ACC Public Utilities. The current version of the construction specifications published by ACC Public Utilities (available at www.athensclarkecounty.com) regarding water main construction are incorporated into this Contract. The Contractor or Subcontractor constructing the water distribution system improvements described in this Contract shall be on the ACC list of approved contractors. Final approval, acceptance and payment for work completed on the water distribution system will be contingent on acceptance of the improvements by the ACC Public Utilities. All costs associated with compliance of the water main construction requirements shall be included in the Cost of the Work or Base Bid.

H. Water Supply Backflow Preventer Assemblies

i. Any work on backflow preventers must be approved and inspected by applicable local government offices and must be performed in accordance with the local governmental regulations. In Athens-Clarke County, the Double-Check Backflow Preventer for the fire main connection and Reduced Pressure Zone (RPZ) Backflow Preventers for the domestic water connections are under the jurisdiction of ACC. The current version of the construction specifications published by ACC (available at www.athensclarkecounty.com) regarding cross-connection / back flow are incorporated into the standards. All costs associated with compliance of the cross-connection / back flow construction requirements shall be included in the Cost of the Work or Base Bid.

I. Sanitary Sewerage Utilities – Sanitary Sewer Collection System

i. Any work on the public sanitary sewer collection system must be approved and inspected by applicable local government offices and must be performed in accordance with the local governmental regulations. In Athens-Clarke County, most sanitary sewer mains and man-holes are under the jurisdiction of the ACC. All connections to the ACC wastewater system shall be approved and inspected by ACC Public Utilities. The current version of the construction specifications
published by ACC Public Utilities (available at www.athensclarkecounty.com) regarding wastewater system construction are incorporated into the standards. For work within ACC, the Contractor or Subcontractor constructing the wastewater system improvements described in the standards shall be on the ACC list of approved contractors. Final approval, acceptance and payment for work completed on the water distribution system will be contingent on acceptance of the improvements by the ACC Public Utilities. All costs associated with compliance of the water main construction requirements shall be included in the Cost of the Work or Base Bid.
1. GENERAL
   
   A. Related sections:
      i. 00 00 08 – Design Professional Documentation Requirements & Deliverables
      ii. 01 41 26.04 – Fire Marshal Construction Inspection Requirements
   
   B. The State of Georgia Office of the Insurance and Safety Fire Commissioner (Georgia State Fire Marshal) has jurisdiction on Board of Regents Property located in the State of Georgia, unless noted otherwise. Design Professionals should not contact the local building authority, unless guided otherwise. For state-owned property, the State Fire Marshal has jurisdiction related to construction permits, 80% and 100% inspections, certificate of occupancy, etc. Note: Local site development and utility work may require permits through the local city / county authority.
   
   C. Leased property: When the BOR leases property outside state owned property the construction permit will be obtained from the local city / county authority having jurisdiction.
   
   D. Variance: In the instance that modifications need to be made, which, therefore, deviates from the approved permit by the Georgia State Fire Marshal, the Design Professional can only request for a Georgia State Fire Marshal variance with the written approval by the Associate Vice President of OUA and Office of Fire Safety.
   
   E. UGA Office of Fire Safety: For renovation projects where the cost of the renovation is up to 50% of the assessed value of the structure as determined by the insured value by the records of the State Department of Administrative Services, the University of Georgia shall provide the following services on all University owned and operated or occupied buildings and structures on behalf of the Office of the Insurance and Safety Fire Commissioner and the Safety Fire Division:
      i. Conduct plan reviews, provide comments and approvals, and issue building permits for renovation project.
         a. One copy of the “UGA Fire Safety Form 354” and two sets of drawings and specifications shall be submitted to the Project Manager to forward to the UGA Office of Fire Safety. The form is included at the end of this section for reference and posted for download on the Standards website at: [www.architects.uga.edu/standards](http://www.architects.uga.edu/standards).
         b. The transmittal form and drawings and specifications shall be submitted at minimum of four weeks prior to the date of commencement of the scheduled date of construction.
      ii. Plan reviews and inspections are of small renovations that involve life safety code features including (but not limited to) egress and exiting, fire alarm systems, incidental changes to sprinkler systems, occupancy changes for incidental use areas, egress lighting, emergency lighting and other relevant life safety and building code features. This also includes adding or eliminating doors and walls, egress corridors or exit discharge.
      iii. Conduct field inspections when a project has reached 80% completion and 100% completion and conduct site consultative inspections.
Date:
Please provide all information requested below. **ALL INFORMATION IS REQUIRED** and incomplete submittals as subject to immediate rejection. Everything submitted to the UGA Office of Fire Safety for review (drawings, revisions, addenda, specifications, etc.) must include a completed UGA-354 Transmittal Form.

**SUBMITTAL:** Pull Set Addendum Revision **TYPE:** Prints Specification

**PURPOSE of SUBMISSION:** Permit Re-submission Preliminary Information Only

**TYPE of SUBMISSION:** New Construction Existing Renovation Fire Alarm Plans Sprinkler System

**REVIEW FEE:** No review fees will be required for University of Georgia owned, operated or related projects

**ADDRESS FOR ALL PLAN SUBMISSIONS:**
UGA Office of Fire Safety, ESD Annex, 148 Will Hunter Road, Athens, Georgia 30602; Telephone (706) 369-5706; FAX (706) 369-5866
**Please Provide Two (2) Sets of All Submissions**

**FACILITY NAME:**
Project Name: Project/Contract #
Street Address (Physical Location):
City Zip County

**OWNER/Division/Department:** Representative Name:
Address: E-Mail Phone:
City State Zip

**UGA PROJECT MANAGER:**
Division: CUA PFD Other: Cell Phone:
Projected Construction Dates: Begin Completion:
E-Mail

**ARCHITECT/ENGINEER of RECORD:**
OA Reg. No.
Firm Name:
Address:
City State Zip
Contact Person:
Phone:

**TYPE of OCCUPANCY (per LSC):**
- Assembly
- Ambulatory Health
- Education
- Health Care
- Business
- Industrial
- Institutional
- Mercantile
- Day Care
- Detention/ Jail
- Personal Care Home
- Residential
- Storage

**CONSTRUCTION TYPE:**
(circle one group):
NPPA: 2.2.0 4.4.3 3.3.2 3.3.1 3.3.2 1.1.1 1.0.0 1.2.1 1.1.1 1.2.0 1.2.0 2.2.0 2.2.0 2.2.0 1.1.1 1.0.0 1.0.0 1.0.0

Square Feet: Estimated Cost: Total Number of Stories: Basement: Yes No

**RETURN PLANS TO:** (Must be a Street Address – No Post Office Box Address)
Name:
Address:
City State Zip

**Office of University Architects**
for Facilities Planning
**UNIVERSITY OF GEORGIA**
OFFICE OF FIRE SAFETY
Environmental Safety Division Annex
148 Will Hunter Road, Athens, Georgia 30602
Phone: 706-369-5706

UGA DESIGN & CONSTRUCTION
SUPPLEMENTAL GENERAL REQUIREMENTS & STANDARDS
JULY 30, 2024

UGA FIRE SAFETY UGA-354

PERMIT REQUIREMENTS – CONSTRUCTION PERMITS
01 41 26.03-2
01 41 26.04
FIRE MARSHAL CONSTRUCTION INSPECTION REQUIREMENTS

1. GENERAL
   A. Related sections:
      i. 00 00 03 – Modifications to General Requirements for BOR Contracts
      ii. 01 41 26.03 – Permit Requirements – Construction Permits
   B. Contractor shall prepare paperwork in advance of inspections and organize in a tabbed three ring binder that will be given to UGA Office of Fire Safety.
   C. The requirements contained in this section are the minimum requirements and additional requirements per the Authority Having Jurisdiction may be requested. For projects managed by GSFIC, ‘Authority Having Jurisdiction’ shall mean the State Fire Marshal.
   D. All requested signatures shall be signed in blue ink and letters shall be on company letterhead.
   E. In addition to 80% and 100% inspection, the Contractor shall contact Project Manager and request inspection / visual witness of tests by UGA Fire Safety, a minimum of 24 hours in advance, for the following as applicable to Project:
      i. Visual confirmation of ball drip valve prior to cover up.
      ii. On site visual observation of all Fire Pump tests.
      iii. On site visual observation of flushing of underground waterlines of fire sprinklers system.
      iv. On site visual observation of flushing of aboveground waterlines of fire sprinkler system.
      v. On site visual observation of light leak test for cooking hood exhaust systems, light bulb being run through duct work (during non-daylight hours).
   F. Contractor shall provide documentation as applicable to the Project:
      i. Fire sealant test data and installation data sheet for specific products used.
      ii. Building structural member spray-on fireproofing with third party testing certification.
      iii. Certification of purchase of gypsum board and/or CMU fire resistive material for structural or fire barrier purposes.
      iv. Clean agent system: provide installer certification and completion in accordance with applicable codes, license to practice in the State of Georgia, special hazard certification as required for interconnection into other building equipment, blue tag on equipment.
      v. Commercial hood fire suppression system: provide installer certification and completion in accordance with applicable codes, license to practice in the State of Georgia, special hazard certification as required for interconnection into other building equipment, blue tag on equipment.
      vi. Fire Sprinkler:
         1) Below ground sprinkler test certificate.
         2) Above ground sprinkler test certificate.
         3) Site supervision form signed by certificate of competency holder.
         4) For welded sprinkler piping on-site, provide the fire sprinkler piping welding certification(s), welder’s marks, and the fire sprinkler piping...
welder letter of certification for disc or coupon retrieval (these are the plugs that are burned/cut out when a branch line is welded to a main line).

5) For fire pump, installation acceptance testing data and flow graph.
6) Fire sprinkler certification for any specialized interconnection to pre-action systems or deluge systems.
7) Copy of sprinkler contractor’s license to practice work in the State of Georgia.
8) Certificate of completion of work in accordance with NFPA 13 (or other applicable codes).

vii. Plumbing / Site Utility (from each Contractor if there are separate plumbing and site utility contractors):
   1) Certificate of completion of work in accordance with the International Plumbing Code edition applicable to the Project (or other applicable codes).
   2) Copy of Plumbing Contractor’s license to practice work in the State of Georgia.
   3) Installation data for boiler equipment.
   4) Backflow preventer test certificates.

viii. HVAC/Mechanical Items:
   1) Certificate of completion of work in accordance with the International Mechanical Code edition applicable to the Project (or other applicable codes).
   2) Copy of HVAC/Mechanical Contractor’s license to practice work in the State of Georgia.
   3) If there is a smoke shutdown system, provide a letter of certification indicating the proper operation of this system.

ix. Electrical
   1) Certificate of completion of work in accordance with the current edition of National Electrical Code and NFPA 72 (or other applicable codes).
   2) Copy of Electrical Contractor’s license to practice work in the State of Georgia.
   3) Fire alarm system battery calculations indicating the minimum amp-hours required to run the system in accordance with NFPA 72.
   4) Fire alarm system record of completion and certification.
   5) Copy of Fire Alarm Contractor’s license to practice work in the State of Georgia.
   6) Fire alarm certification for interconnection to auxiliary systems such as kitchen hood suppression system, air handling duct detectors, smoke removal systems, exhaust fume hoods, chemical fume hoods, elevator recall systems, fire exit door releases.
   7) If there is a generator, provide electrical generator acceptance test.
1. **GENERAL**
   A. If the concept to use explosives to remove rock is approved by the Project Manager, then the Contractor, a minimum of seven calendar days prior to commencing blasting activities, shall provide the Project Manager with:
      i. The proposed blasting schedule.
      ii. A complete and executed ‘UGA Blasting Checklist’ which is located at the end of this section.
   B. The Project Manager will forward the blasting schedule and ‘UGA Blasting Checklist’ to UGA Office of Fire Safety who will in turn coordinate with the State Fire Marshal. The Project Manager and Contractor must receive written authorization of approval from UGA Office of Fire Safety prior to authorizing the commencement of blasting.
UGA Blasting Checklist

** This form is to be submitted and approved prior to all blasting activities **

Project Name: ____________________________________________________________

Contractor Responsible: ____________________________________________________

Trade Contractor Responsible: ______________________________________________

Blasting Company Responsible: _____________________________________________

Scheduled Date / Time of Blasting: __________________________________________

Notifications (one week in advance):
1. UGA Office of Fire Safety (call 706-369-5706)
   Date/Time Notified_______________________ Contact Person___________________

2. UGA Police (call)
   Date/Time Notified_______________________ Contact Person___________________

3. Local Police/Fire Department (For Athens-Clarke County call 706-542-2200)
   Date/Time Notified_______________________ Contact Person___________________
   Day of Blast: __________________________

2. Local Utilities Department (For Athens-Clarke County call 706-613-3470 Admin)
   Date/Time Notified_______________________ Contact Person___________________

3. Department Notifications
   (Coordinate list and Contact with Owner’s Representative)
   Department Name: _____________________ Date/Time Notified___________________

Checklist

1. Blaster certification card on file / Georgia license #:
   _______________________________________________________________________

2. Pre-blast seismic survey completed prior to blast ____________________________
   Surveying Company_______________________ Survey Date______________________

3. 6’ of earth cover confirmed on site _________________________________________

4. Blast mats in place _______________________________________________________

5. Crushed stone used to fill boring holes _____________________________________

6. Perimeter verified & staffed by blaster and WT with radio communication – 200’ from blast
   zone ___________________________________________________________________

7. Verify no charges are within 10’ of existing utilities __________________________
UGA Blasting Checklist (Continued)

8. Immediately prior to blasting administer 3 quick sirens and 1 long siren with air horn

9. Seismograph in place and functional

10. *Post-blast seismograph reading Time of Reading

11. Blaster checks detonation tail cap to verify all explosives have discharged before anyone can re-enter site

Trade Company Responsible Signature Date: 
Trade Company Responsible Printed Name

Contractor Signature Date: 
Contractor Printed Name

Approval to Proceed Signature by UGA Office of Fire Safety Prior is required prior to Blasting. This will ensure that State Fire Marshal is appropriately contacted.

Authorization to Proceed with Blasting by UGA Office of Fire Safety:

Signature Printed Title: Date:

*Post-blast information will be updated after the event.
DINING SERVICES

1. GENERAL

A. Related sections:
   i. 00 00 08 – Design Professional Documentation Requirements & Deliverables

B. Dining Services projects being undertaken as a component of another active project are funded separately, however decisions regarding Design Professional and Contractor selection must be made concurrently with the selections for the main Project’s Contract.

C. The UGA Environmental Safety Division (ESD) shall be involved in the design development and reviews, permitting, and inspections for all new or renovated food service areas where food is being prepared in UGA owned or leased facilities. The Design Professional shall work through the Project Manager to coordinate meetings as required.
   i. Catering kitchens are exempt from this requirement.

D. Programming: As soon as a food service operations is identified within a project program, a meeting should be coordinated with the Design Professional(s), Project Manager, ESD, and UGA Dining Services to further discuss the scope, refine the program, and to identify and coordinate contractual requirements involving third party franchisors.

E. Design Professional(s) shall coordinate a meeting between Dining Services, Project Manager, and Construction Manager regarding the sourcing and installation responsibilities regarding equipment on a per project basis.

F. For renovations and other work in existing facilities, a Pre-TAB report shall be provided by UGA prior to any design work occurring to verify existing operational parameters.

G. An air balance diagram shall be provided as a component of the mechanical design documents.

H. Coordinate grease trap placement with outside air intake locations.

I. Equipment schedules delineating sourcing and installation responsibilities must be reviewed, signed off on, and accepted by both Dining Services and the Project Manager for each project.

J. Prior to Schematic Design, signage requirements shall be reviewed with Dining Services, OUA, and the Design Professional(s).

K. Schematic Design and Design Development: As part of these milestone design reviews, the Project Manager will coordinate meetings with the Design Professional(s), ESD, and UGA Dining Services to review the documents to date and provide input and guidance.
   i. ESD will review the drawings and ESD will forward preliminary concept drawings to the authority having jurisdiction for food safety permitting and share any review comments with the Project Manager.

L. Construction Documents: The Project Manager will coordinate meetings with the Design Professional(s), ESD, and UGA Dining Services to review the documents to date and provide input and guidance.

M. Submission to Health Department for Construction Permit
   i. The Project Manager shall coordinate submission of design information (drawings, specifications, equipment lists, etc.) to the Athens-Clarke County Health Department for review at the Design Development and 80% design
milestones in order to obtain a construction permit from ACC Health Department.

N. Submission to Health Department for Operational Permit
   i. The Design Professional shall not submit any documents directly to the Athens-Clarke County Health Department.
   ii. ESD will coordinate with the appropriate entity (UGA Dining Services, Stadium Concessionaire, etc.) to complete the application and the entity responsible for preparing the food will submit the application.
   iii. The Design Professional shall supply all necessary information to complete the forms as part of the Contract Basic Services.
   v. The documents that will be submitted as part of the food service application shall include as a minimum (may vary per jurisdiction having authority):
      1. Physical address of the building
      2. Location of building onsite showing access roads, alleys, and streets.
      3. Location of outside equipment as applicable:
         a. Dumpsters and compactors
         b. Well
         c. Septic System
      4. Plan drawn to scale showing location of kitchen equipment.
      5. Detail drawings of any walk-in refrigerators / freezers, if applicable.
      6. Square footage for eatery including dimensions.
      7. Cubic footage of dry storage, if applicable.
      8. Manufacturer specification sheet for each piece of equipment shown on the plan.
      9. Manufacturer specification sheet for water heater.
     10. Manufacturer specification sheet for grease trap.
     11. Plan drawing(s) for plumbing.
     12. Plan drawings(s) for electrical.
     13. Plan(s) for mechanical ventilation including:
         a. Mechanical hood ventilation detail drawing if applicable with:
            i. Design Intent
            ii. Filters and/or extraction devices
            iii. Square footage
            iv. Fire protection
            v. Air capacity in cubic feet per minute (current capacity and anticipated needed)
            vi. Air makeup in cubic feet per minute (current capacity and anticipated needed)

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O. Inspections
i. The Contractor shall not submit requests for inspections directly to the authority having jurisdiction for the project.

ii. ESD or Dining Services will notify the Project Manager of proposed food service area inspection dates, will coordinate the inspection and will typically have personnel on site during all inspections.

2. PRODUCTS
   A. Plumbing
      i. All above-floor grease interceptors shall be constructed of polyethylene. Alternate materials are not acceptable.
      ii. Acceptable options for above-floor grease interceptors shall be Zurn GT2702-07 or equal.
      iii. Outdoor subgrade grease interceptors shall be constructed of precast concrete, and shall be located with sufficient separation from outside air intakes in order to prevent odors from the interceptor from entering the building.
      iv. Acceptable options for three-compartment sinks at smaller café facilities shall be Advance Tabco K7-CS-21 or equal. For full-size kitchen facilities, the Design Professional shall coordinate specific requirements.
      v. Lever waste drains are required and shall be by T&S (or equal).
      vi. Indirect drains shall be installed at all sinks.
      vii. The domestic water supply serving the Dining Services area shall be sub-metered. The Design Professional shall contact the Project Manager in order to coordinate project-specific metering and sub-metering requirements.
      viii. An EcoLab water filtration shall be provided by Dining Services and coordinated by the Design Professional and Contractor.
      ix. The water filtration system shall be centralized whenever possible and shall serve equipment such as ice machines, coffee makers, tea brewers, etc. Coordinate point of connection and space requirements with Dining Services and Project Manager.
      x. Hand sink faucets shall be by T&S Brass (or equal) and shall be equipped with integrated hands-free sensors and hydrogenerators.
      xi. It is preferred that each Dining Services location is served by its own water heater.
   B. Mechanical
      i. No horizontal runs are allowed for grease ducts. Grease ducts are to be light tested, pressure tested, and smoke tested prior to space turnover.
      ii. Kitchen hoods shall be energy efficient and comply with the Standards.
      iii. Make-up air to hoods shall be conditioned.
      iv. All exhausts and other system components shall be accessible.
      v. All HVAC controls shall be compatible with the existing building systems and all equipment provided shall have native BACnet interface.
      vi. Refrigeration condensing units are to be remotely located where the rejected heat will not add load to the HVAC system; coordinate with Project Manager and Dining Services. If remote location of compressors is not possible, provide equipment with bottom-mounted compressors and provide water cooled condensers in buildings with conveniently located recirculating chilled or process chilled water; coordinate with Project Manager.
C. Electrical
   i. The electrical service feeding the food service area shall be metered at the panel
      or sub-panel feeding the food service area. The Design Professional shall contact
      the Project Manager in order to coordinate project-specific metering and sub-
      metering requirements.
   ii. Each piece of hard-wired equipment must have a point of disconnect to
       facilitate maintenance activities.
   iii. Each piece of equipment requiring nonstandard outlets must be coordinated
        with equipment requirements and indicated on both the equipment schedule
        and electrical design documents.
   iv. GFI breakers shall be provided in lieu of GFI outlets when possible.
   v. Lighting fixtures shall be LED and comply with the Standards. Refer to Section 26
      5100 Interior Lighting.
   vi. In general, lights are to be switched; no dimmers or lighting control systems are
       required. Coordinate project-specific lighting requirements and switch locations
       with Project Manager and Dining Services.

D. Finishes
   i. The wall surface material of back-of-house rooms associated with the food
      service area shall be fiber-reinforced plastic (FRP) panels, which shall extend
      from floor to ceiling.
   ii. Flooring at all non-guest areas (food preparation, storage, coolers, freezers, etc.)
      shall be Titan non-skid, slip-resistant flooring by BMI (or equal). Guest use areas
      shall receive easy cleanable slip-resistant flooring consistent with the overall
      design and finish selections. Base in these areas shall also be of Titan material.
   iii. Base shall be cove base where the top leading edge of the cove shall be flush
        with the finish surface of the floor material.
   iv. Grout at all food service areas shall be dark color epoxy grout.
   v. Ceiling tiles shall be NSF-approved vinyl-clad washable tiles at all food
      preparation and storage areas.

E. Caulking / Sealants
   i. All joints between dissimilar materials shall be caulked with clear silicone caulk
      in a manner commensurate with manufacturer instructions.

F. Furnishings
   i. Food service work tables, cabinets, and casework shall be constructed entirely
      of stainless steel. Legs and frame shall be square (304-SS) and sheet stainless
      steel shall be 200- or 300-series. 400-series stainless steel is not acceptable in
      any case. Decorative cladding is acceptable at aesthetically sensitive areas
      subject to approval by the Project Manager and Dining Services. When
      decorative cladding is used, all plywood substrates must be marine grade.
      Cabinet base may be required to be elevated on a concrete or stainless-steel
      curb; Design Professional to coordinate with Project Manager and Dining
      Services.
   ii. Countertops and backsplashes shall be stainless steel or solid surface material as
       approved by Project Manager and Dining Services.
   iii. Cabinet backsplashes shall be integral with countertops.

G. Communications
i. DSL lines for credit / debit card services are not tied to the campus network and specific needs (entrance location and distribution devices) must be coordinated with the End-User during design.

ii. Phone and campus network data ports are required at each point-of-sale station. These ports should be run back to the network / communications wall cabinet for the Dining Services area.

H. Security

i. Coordinate service entrance access requirements with End-User.

ii. Security cameras and any recording device shall be provided by Dining Services, however conduit, backboxes, cabling, and other supporting appurtenances required to accommodate the security system shall be provided and installed by the Contractor. Locations shall be coordinated with Dining Services through the assigned Project Manager. Typical locations to be monitored include (but are not limited to) storage areas and point-of-sale locations.

iii. The video recording device should be established within the Dining Service area, such as, for example, in the network / communications wall cabinet typically installed for such areas.
1. **GENERAL**

   A. **Related Sections:**
      i. 00 00 07 - Design Professional Documentation Requirements and Deliverables
      ii. 01 58 13 – Temporary Project Signage
      iii. 01 77 00 – Project Closeout

   B. **This section applies to projects with any of the following:**
      i. Instructional laboratory prep rooms
      ii. Research laboratory support rooms
      iii. Research laboratory chemical storage rooms

   C. **During Design**
      i. Anticipated chemical types and quantities to be identified by end users and provided in excel spreadsheet to Office of the University Architect (OUA) or Facilities Maintenance Division (FMD) Project Manager that will be shared with design professional of record, Environmental Safety Division (ESD), and Office of Research Safety (ORS).
      ii. For all prep, support, and chemical storage rooms, the end users should consider if there are anticipated bulk purchases related to how funding is allocated to determine if greater storage needs are required for portions of the year; during design, discussions should occur about what room size makes sense related to annual purchase funding for chemicals and the project construction funding available for the room. Final room size decisions will be documented by the OUA or FMD Project Manager or the Design Professional and shared with the end users, ESD, and OR.
      iii. For instructional prep rooms, the end users should also provide to the OUA or FMD Project Manager and/or Design Professional the anticipated quantities of UGA prepared solutions (mixed from purchased chemicals) that will be stored in the prep room so potential outgassing can also be accounted for in the design of the room exhaust and amount of air changes.
      iv. Design professional of record, in compliance with the provisions of the State of Georgia Minimum Fire Safety Standard 120-3-3 and the most current adopted edition of NFPA 45 – Standard on Fire Protection for Laboratories Using Chemicals will determine, using the provisions of NFPA 45 – Chapter 4: Laboratory Unit Hazard Classification and Chapter 5: Laboratory Unit and Construction, the maximum quantities of flammable liquids for each laboratory and laboratory support room, the Classification (A, B, C, or D) of each room.
      v. After design development, the OUA or FMD Project Manager will develop letter about end user awareness and adherence to maximum chemical quantity storage requirements. OUA PM to follow procedure in OUA Policy and Procedure Manual.

   D. **During Construction**
i. For rooms specifically used for chemical storage, based on construction and occupancy type, the code classification utilized for construction permitting and quantity amount limitations shall be posted inside the room.

E. During Closeout
   i. Include in the Operations and Maintenance Manual, copies of the letters and chemical quantity lists prepared during design.
   ii. During owner training, a session shall be held with end users about chemical quantity storage amounts (led by ORS and/or ESD). This should include educating end-users about purchasing of chemicals in bulk and insuring that allowable chemical quantities are not exceeded.
      a. This should also include training of building manager(s) and also pointing out that personnel who frequently occupy a space may not notice chemical smells as they become use to it.
      b. End users and building managers shall also be trained to immediately report any signs of corrosion as that could be an indicator of chemical quantities higher than what the system was designed to handle.

F. Post-Occupancy
   i. During first year of occupancy and afterwards, ESD and/or ORS shall inspect chemical storage rooms and laboratories for compliance with allowable quantities at least once per year with reports to Principle Investigators, Department Heads, and Deans and Vice Presidents as applicable.
1. GENERAL
   A. The Owner will contract directly with the Owner’s Testing Agency.
   B. Design Professional to prepare schedule of special inspections for the Project.
   C. Testing
      i. The Owner reserves the right to employ the services of a testing agency (“Owner’s Testing Agency”). Owner’s Testing Agency shall perform tests as mandated by the Owner and the Contract Documents. For testing identified in the Contract Documents, the Contractor is responsible for notifying Owner’s Testing Agency 24 hours in advance of time and date testing is required. If the Contractor requests the Owner’s Testing Agency on site and is not ready for the Owner’s Testing Agency’s services, the Contractor shall reimburse the Owner for the Owner’s Testing Agency’s complete cost for the site trip including mileage, travel time, and time spent on-site waiting for the Contractor to be ready for the Owner’s Testing Agency’s services. The Contractor shall reimburse the Owner for any re-test due to failure of initial testing.
1. **GENERAL**
   A. The Contractor shall provide from the beginning of work, washing and temporary enclosed toilet facilities for use of workers on the job. Such facilities shall be maintained in a clean and sanitary condition meeting all local and state health standards throughout their use. The Contractor shall not permit any sanitary nuisance in or about the work. Toilet facilities for the Contractor’s workers shall be provided by the Contractor as part of the Contractor Overhead Cost or Base Bid. University toilet facilities shall NOT be made available to the Contractor's workforce.
1. GENERAL
   A. Roadway, sidewalk, and parking lot use, blocking and closing shall be subject to approval by the Owner. The Contractor shall coordinate through the Project Manager. A minimum of 72-hours’ notice is required for the Owner to make all necessary arrangements for this work, and such work shall be scheduled at the convenience of the Owner. Roadways, sidewalks, and parking lots shall not be blocked for extended periods of time.
1. **GENERAL**

   A. This work is being performed on the Owner’s property and parking is restricted and regulated. Contractor and workers shall park only in areas designated by the Owner.

   B. For projects in Athens-Clarke County only: The Contractor’s forces electing to park on campus are required to purchase “Contractor Parking Permits” from University of Georgia Parking Services (706-542-PARK). Contractor shall include the cost of parking permits in the Contractor Overhead Cost or Base Bid. Any costs associated with parking permits shall be included in the Cost of the Work by each Subcontractor as applicable. Designated ‘laydown’ area taken from an existing permitted parking area shall not be used as a ‘free parking’ area. However, the Contractor may park some (around 10) vehicles within the designated construction site that do not require permits. Abuse of this free parking allowance may result in the UGA Parking Services requiring the purchase of permits or immediate reduction of parked vehicles. Parking spaces directly adjacent to the project site are not guaranteed. It is the responsibility of the Contractor to coordinate parking availability outside of the Project fence with University of Georgia Parking Services. The Contractor is responsible for paying for all fines related to parking violations at Contractor sole cost and the Contractor shall not be allowed to pay for fines from the Contractor Contingency or as part of the Cost of the Work or as a Change Order.

   C. A permit is not required for parking construction related vehicles and/or personal vehicles driven by those working on the construction site within the staging area. It is ultimately up to the Contractor to decide how to utilize available space within their staging area.
1. GENERAL
   A. Contractor shall provide adequate traffic warning methods and devices in accordance with Georgia Department of Transportation standards to warn motorist and pedestrians of any obstructions within the right of way of the roadway. Contractor shall coordinate with the Project Manager and obtain land and road closure permits as required by the Owner and the local Public Works Department. The cost of all traffic control and associated permits shall be included in the Base Bid or Overhead Cost.
01 55 29
STAGING AREAS – STORAGE

1. GENERAL
   A. The Contractor shall coordinate and use only the area(s) designated by the Owner for job site office, storage of materials and equipment, parking and staging operations. These areas and grounds shall be left clean and shall be restored to the same condition as when accepted by the Contractor. Construction and staging are limited to the designated areas.
01 56 39
TEMPORARY TREE & PLANT PROTECTION

1. GENERAL
   A. Related sections:
      i. 32 01 90.23 – Pruning
      ii. 32 90 00 – Planting
      iii. 32 91 00 – Planting Preparation
      iv. 32 91 13.16 – Mulching
      v. 32 92 00 – Turf and Grasses
      vi. 32 93 00 – Plants
      vii. 32 94 13 – Landscape Edging
   B. Scope
      i. All existing trees and shrubs within the designated limits of a project shall be
         protected from soil compaction, equipment damage and stockpiling of materials
         such as sand, gravel and topsoil. This includes any adjoining areas in which
         planting materials or equipment (including vehicles) will be stored. In order to
         prevent damage to trees and tree root systems, protective barriers shall be
         installed before construction begins.
      ii. The tree canopy / tree root zones of trees designated to be preserved shall be
         protected during the entire construction process.
      iii. Tree trunks and branches shall not be damaged by equipment or workers. Tree
         roots shall be protected from soil compaction, damage by trenching or excessive
         grade changes, and hazardous materials or waste products.
      iv. Any anticipated or required pruning shall be performed by the UGA Grounds
         Department.
      v. A Tree and Plant Protection Map shall be prepared by the design professional,
         which identifies all areas affected by the Project. The Tree and Plant Protection
         Map must show the location, species and size of all existing trees and landscape
         that may be negatively impacted by the Project. The map must indicate which
         trees and shrubs are to be removed, and which ones are to remain. The plan
         shall include protection measures for all tree and landscape impacts, including
         all utility connections for the Project. Plants scheduled to be removed shall be
         evaluated for relocation as approved by the UGA Grounds Department.
      vi. Tree Protection Fencing shall be shown on all Demolition Plans and Sediment &
         Erosion Control Plans throughout every phase of a project.”
   C. Tree Canopy / Tree Root Protection Zones
      i. Prior to the start of any site work the Contractor will erect fencing around trees
         which are to be preserved and sensitive root zones which are to be protected
         within the construction site.
      ii. The Contractor shall meet with the UGA Grounds Department representative
         and Project Manager prior to beginning any site work to review and verify all
         work procedures, trailer location, stockpiling and staging areas, access and haul
         routes, and equipment operation methods with respect to the required tree
         canopy / tree root protection measures.
iii. Trees indicated on the plan to remain shall be protected from injury to their branches, trunks, and root zones during the entire construction period. Protection of tree canopy / tree root zones shall be by the placement of temporary fencing as outlined.

iv. No removal or encroachment into tree protection enclosures shall be permitted unless coordinated with the Project Manager.

v. The Contractor shall be responsible for installation and maintenance of all tree protection fencing. Protective fencing shall remain undisturbed until all site work has been completed. The Contractor shall remove fencing at completion of the Project.

vi. If protective fencing is damaged, the Contractor shall immediately execute the necessary repairs to re-establish the protective fencing to the original configurations.

vii. The Contractor shall be held liable for any damages to protected trees and root zones caused by unauthorized intrusions into the protected areas during construction activity.

viii. Any pruning of protected trees that may be required during the course of construction shall be performed by the UGA Grounds Department. Coordinate pruning requests with the Project Manager.

ix. Erosion control devices shall be installed as per contract drawings with particular emphasis on preventing silting and/or erosion from occurring within the tree root protection zone.

D. Tree Canopy and Tree Root Zones Allowed Disturbance

i. In situations where the Design Professional has received written approval from the Project Manager to allow work that will compromise tree root zones, the Contractor will be responsible for the follow up and shall be included in the Cost of the Work or Bid:
   a. Watering affected tree as prescribed by the Design Professional or UGA Grounds Department.
   b. Air spading by certified arborist.

2. PRODUCTS

   A. Protective Fencing
      i. Protective fencing shall be 6 feet high chain link fencing. Support posts for chain link fencing shall be metal posts with a minimum of 2-inch diameter and full height of fencing. Use 9 gauge top and bottom wires between posts to support chain link fencing. Attach fencing to posts and top and bottom wires with 9-gauge wire ties.

   B. Geotextile Fabric
      i. Filter fabric shall meet the requirements for GADOT Type 3 engineering fabric, Class A.

   C. Mulch
      i. Coarse chipped or ground wood mulch shall be approved prior to application by the Project Manager.

3. EXECUTION

   A. General
i. The Contractor shall locate utilities prior to installing chain link fence support posts into the ground.

ii. Trees to be removed that have branches extending into the canopy of trees to be preserved shall be removed by a certified arborist and not by the Contractor or a demolition Subcontractor. The certified arborist shall remove the tree in a manner that causes no damage to the protected trees and landscape to remain after construction is completed.

iii. Trees to be removed shall be felled so as to fall away from protective zones and to avoid pulling and breaking of tree roots indicated on the plan to remain.

iv. Any brush clearing required within or around the tree canopy protection zone shall be accomplished with hand operated equipment.

v. The Contractor shall be held liable for damages incurred to any tree branches that extend over protective fencing and to any trees or other plant material located on the site and indicated on the plan to remain. The Contractor shall notify the Project Manager when any overhanging branches or other plant material is interfering with or risks damage due to construction activity.

vi. If work causes an existing tree to be removed that is not shown on plans as planned demolition, the UGA Grounds Department shall be consulted with to evaluate and determine future viability of the existing tree(s) located within the area(s) of proposed construction excavation.

vii. Final evaluations shall be coordinated with the Project Manager to determine if tree should remain, be relocated, or be removed if unable to survive encroachment of new revised design and construction.

B. Scope of work Within or Around Tree Root Protection Zone

i. Any grading, construction, demolition, remedial measures or other work that is expected to encounter tree roots shall be made in consultation with the Project Manager.

ii. No machine digging shall take place within a radius of one and one-half foot for each 1-inch diameter at breast height (DBH) of the tree. DBH is defined as the diameter of the trunk measured at 54 inches above grade.

iii. Any roots 2 inches in diameter or less that sustain damage during construction shall be exposed to sound tissue and cleanly pruned close to the tree side of the trench. Clean cuts shall be made at all times.

iv. For construction Projects requiring access or haul roads that must pass over the root area of trees to be retained, a roadbed shall be installed using 4 inches (minimum) of mulch or wood chips covered with approved logging mats. Approval shall be given by the Project Manager. The roadbed shall be replenished and maintained as necessary to provide desired root zone protection. For projects requiring materials storage within the root area of trees to be retained or protected, this area shall be constructed using an approved geotextile base covered with 4 inches (minimum) of coarse wood mulch or chips. The area shall be replenished as necessary to maintain a 4-inch (minimum) depth.

v. No material shall be stored or piled within a radius of 2 feet for each 1-inch DBH (minimum) of the designated tree root zone or as directed by the Project
Manager. No gasoline, fuel oil, harmful chemicals, etc., or other deleterious materials shall be stored, spilled or deposited on the ground with in this limit.

vi. There shall be no vehicular traffic or parking permitted under the drip line / canopy of any tree to be retained or protected within the construction site unless approved tree root protection measures have been installed.

vii. Foot traffic shall be kept to a minimum under the drip line / canopy. If temporary foot traffic must be directed over the root zone of trees to be retained or protected, a pathway shall be installed using an approved geotextile base covered with 3 inches (minimum) or mulch or wood chips. The pathway material shall be replenished as necessary to maintain a 3-inch (minimum) depth.

viii. Installation of curbs and sidewalks shall be completed in a manner least damaging to trees and tree root systems. An approved geotextile fabric shall be considered a viable alternative to the specified sub-base in sensitive root zones. When unique site conditions not addressed in the contract drawings result in the opportunity for an alternative solution or a potential modification to the plan, the Contractor may present a proposal to the Project Manager.

ix. For an existing landscape with an irrigation system that requires protection, the Contractor shall either maintain operation of the irrigation system at all times or hand water at rate and schedule approved by the Project Manager.

C. Liability

i. The Contractor shall be held liable for any damage to protected trees. A dollar value shall be determined by following criteria contained in A Guide for Plant Appraisal (Council of Tree and Landscape Appraisal, Latest Edition).

ii. The Contractor shall be held liable for all remedial measures required to treat broken limbs, or damaged trees and roots, or for unauthorized removal of existing trees or plant material, etc. All tree surgery and remedial treatments will be accomplished by a certified arborist.

iii. Contractor will protect all trees, shrubs and grass in the Project site that will not be removed as part of the scope of work. Any damages to these live plants will be repaired or replaced by the Contractor at the Contractor’s sole cost before final payment will be issued by the Owner.

iv. The actual damages are difficult to ascertain. Therefore, in addition to the above, the Contractor shall pay the Owner as liquidated damages and not as a penalty, $500 per day for each day that the Owner and/or Design Professional documents violation(s) of the requirements within this section. Such liquidated damages shall be paid to the Owner through a unilateral deductive change order to the Contractor’s Contract.
1. GENERAL
   A. Related sections:
      i. 00 00 09 – Room & Space Numbering
      ii. 10 14 00 – Signage
      iii. 26 56 00 – Exterior Lighting (for requirements regarding exterior signage.)
   B. The University of Georgia campus consists of a mosaic of buildings and open space within an intricate fabric of natural landscape. Its layout generally provides close and distant views that are free of unnecessary architectural obstacles such as signage that blight other campuses. The purpose of these guidelines is to provide a framework by which exterior signage is properly employed to provide clear information without cluttering the campus and detracting from its enjoyment. Protecting the campus from visual clutter protects the University’s brand identity and renowned aesthetic character. Further, the framework contributes to a coherent and consistent wayfinding system across campus. Ultimately, the purpose of a sign is to provide information when needed and to fade into the background when not.
   C. Exterior signage shall be limited to campus gateway identification, building identification, and signage required by code and regulation. The UGA Uniform Sign Program, developed in 1967 by Professor Ron Arhholm of the Department of Art, provided the original specifications for campus exterior signs. LDSOA faculty and FMD have updated this document over the years, and the current specifications are incorporated into the Standards.
   D. All requests for exterior signage not conforming to the Standards or those exceptions listed below shall be brought to the Campus Environs Review Committee (FacilitiesInquiries@uga.edu) for consideration.
   E. Donor or memorial related signage is addressed as an exception category with specific guidelines governing design and placement in a subsection below.
   F. Design and placement of campus educational signage, historical markers, etc. shall be reviewed on a case by case basis by the Campus Environs Review Committee.
   G. Consistent with Section I-C-iii of the campus solicitation policy, there shall be no exterior facing commercial signage. Though allowed inside certain buildings associated with a service provision, commercial signage shall not be visible from the exterior of the building. This includes commercial signage associated with vending, except in those locations reviewed and approved by the Campus Environs Committee. At athletic fields, approved signage may be allowed on the interior facing field walls or fences. However, no commercial signage shall be fastened to any exterior facing wall or the exterior of any stadium, court, or athletic facility.
   H. Exterior electronic message centers are not permitted as they detract from the campus aesthetic.
   I. New signage not in conformance with UGA sign regulations shall be removed at the cost of the party responsible for erecting the sign. This includes temporary signage that has not been removed on schedule and where temporary signage has caused damage to landscape or wall surfaces.
J. Existing exterior signage types not identified in this document should be reviewed by the Campus Environs Review Committee. A decision should be made for either immediate removal, removal coinciding with scheduled maintenance or future improvements, or for an exception to be granted.

K. Campus Environs Review Committee may also approve and set standards for additional signage types in the future.

2. **TYPICAL EXTERIOR SIGNAGE**

   **A. Campus Gateway Signage and University of Georgia Identification:** In general, the landscape and architecture of UGA adequately identify campus edges; however, signs identifying the campus may be placed at prominent campus entryways and/or prominent corners created by intersections.

   i. Campus identification signage (whether on Main Campus, Whitehall, Riverbend Research, or the Health Sciences Campus, or outlying properties) should consist of the free standing painted metal signs identified in section 2 below. Consistency with the graphic standards specified in the section regarding color, typography, and content is required.

   ii. At various key entries or prominent corners, granite rubble walls with pin-mounted metal letters have been used. However, requests for these must be approved by the Campus Environs Review Committee.

   iii. Requests for additional or alternate identification sign types must be presented to the Campus Environs Review Committee for review and determination.

   iv. “University of Georgia” identification is to be employed only on signs for buildings or sites located on the periphery of or away from the main campuses.

   **B. Building / Property Name Identification:** Campus buildings are identified by either free-standing or attached signage.

   i. **Free-Standing Metal Sign:** Buildings, building complexes, and campus properties shall be identified as specified below:

      a. Short form of the building or property name (generally the vernacular). This is a normally two to three word name (five word maximum).

      b. Name may occupy no more than two (2) lines of text.

      c. The building number as assigned and noted on campus maps

      d. **Subtext Listings**

         1) Subtext listings may appear on a building I.D. sign only if the main / administrative office of that entity is located within the building. For example, the name of a college may only be placed on signage for the building in which the dean’s office is located.

         2) Subtext listings may not occupy more than two lines of text. Length of text lines is limited to approximately 40 letters and spaces.

         3) The order of hierarchy is as follows:

            i) Name of a presidential or vice presidential office, college, school (headed by a dean), or division.

            ii) Name of an academic or administrative department, or a school existing as a unit within a college.
iii) Street address of the building for emergency response purposes (addresses are only to be included on signed located adjacent to the streets identified).

4) There is no limit to the number of lines of subtext utilized to meet the above criteria.

e. There is no limit to the number of lines of subtext utilized to meet the above criteria.

f. Additional information will not be included on signs without the approval of the Associate Vice President of FMD. Generally, additional information will only be approved if the total lines of subtext including items 1-3 above are no more than six lines total. Additional information which may be approved for inclusion on signs is as follows:

1) Names of academic centers and institutes if they meet the same / similar criteria as service / transaction centers listed below.
2) Names of auditoriums if the facility is regularly used for public presentations, lectures, etc.
3) Service / transaction points open and available to the public (library, clinic, gallery, computing center, etc.).
4) Name of an academic program office if the program generates a significant number of site visits by students or the public, and if the program offices and operations are centralized within the facility. (Note - An academic program office may be removed from a sign if another entity that ranks higher on the scale takes up occupancy in the facility.)
g. The following information may not be included on exterior building I.D. signs:
   1) Non-academic program offices
   2) Academic offices that do not meet the criteria of f.4
   3) Section Offices
   4) Centers and institutes that do not have a public interface component
   5) Personal names of building occupants
h. FMD’s Sign Shop applies detailed font type, size, and spacing guidelines in these production of uniform identification signs.
   ii. Attached to Buildings: Buildings shall be identified by lettering in all capitals using either carved-in-stone or projected, pin-mounted letters. In general, signs should be located above major building entrances. However, depending on sight-lines and building configuration, sign location may be located at the discretion of OUA.
      a. Letters carved in stone (or sand blasted into precast or stone) shall be Legacy Font. Size of font and use of serif or sans-serif shall be determined by OUA.
      b. Projected, pin mounted letters shall be ½-inch thick cast bronze, black non-ferrous metal, or brushed aluminum and shall be Helvetica Medium font. Typically, sizes shall range from 4 inches to 8 inches at the discretion of OUA.
      c. In rare instances, the metal identification sign described above as a free-standing sign may be mounted on a building, where site limitations preclude a free-standing sign, as on downtown streets.
C. Informational Signs and Parking Signs
   i. Blue and black signs shall be used for signs which are more informational in nature, such as directional or parking information. These sign types shall be limited in use and provide for basic identification and wayfinding needs that are outside the context of building and complex identification. The UGA Grounds Department sign shop shall determine the placement and appearance of all informational and parking signs.
D. Regulation / Code Required Signs
   i. Road signs, ADA signs, fire and life safety signs, and all other signs required by code or regulation shall be governed by the Reference Manual of Uniform Traffic Control Devices and any other applicable regulatory parameters.
E. Campus Directories / Location Maps
   i. Directories should be placed at logical locations throughout campus.
      a. Campus maps with “You Are Here” identification: Campus maps shall be placed at logical locations throughout campus. They should not be placed where they obstruct entryway views, historic views, or prominent views of campus. These signs should be constructed to fade into the campus landscape. Preferably these should be constructed so that they can be updated regularly and cost effectively.

3. TYPICAL INTERIOR SIGNAGE
A. Interior wayfinding signage (room identification and directional signage) is provided and maintained by FMD.
B. Room Identification Signage and Code-Required Signage
   i. In order to assure cost effective building maintenance and replacement, materials should be limited to the Rowmark ADA signage available for fabrication through UGA FMD in a variety of contrasting background / lettering options.
      a. Within Resident Instruction (RI) buildings, the Provost must approve any requested room identification signage that requires third party fabrication as a result of the design or material preferences of the user group.
      b. Within non-RI buildings, deviations that require third party fabrication are discouraged and will be the responsibility of the user to fund maintenance and replacement.

4. DONOR AND/OR MEMORIAL SIGNAGE
A. Donor and memorial signage opportunities shall be identified in accordance with relevant naming / memorial policies and designed, ordered, and installed only after approval procedures have been completed. Development officers should work with OUA when determining appropriate size and design of recognition signage.
B. Use of Logos
   i. Use of the official UGA logo in donor recognition graphics should conform to the style guide available through the UGA Division of Marking and Communication Office at [http://styleguide.uga.edu/index.php?/entries/logo_guide_and_downloads](http://styleguide.uga.edu/index.php?/entries/logo_guide_and_downloads)
   ii. No commercial or corporate logos or other branding imagery is permitted in association with campus donor recognition graphics. In special circumstances, use of logos on interior recognition plaques may be approved by the Office of the President.
C. Building Naming
   i. Exterior (attached) building sign
      a. Location – Generally the exterior building naming signage should be located above the most prominent formal entry and limited to this singular location.
      b. Content – Use only BOR-approved naming language for exterior building signage.
      c. Material – Engraved or cast lettering as well as pin-mounted dimensional letters are both appropriate materials and methods for
providing building naming signage. Dimensional naming letters across campus are commonly black non-ferrous metal, anodized bronze, or brushed aluminum. Brushed aluminum should be limited to pin-mounted dimensional letters set against a field of brick, where legibility of darker letters can be obscured.

d. Typeface should adhere to precinct precedents when nearby.

e. Depending on the size of the overall facility, the letter heights may vary. Lettering is typically 6 inches tall with ½-inch (to be consistent with above notes) extrusion. Requests for taller letter heights shall be submitted to OUA for approval.

f. Letters on a field of brick shall be carefully placed to work in concert with the horizontal mortar joints to make the letters as legible as possible.

ii. Exterior (free-standing) grounds sign

a. No deviation from Section III-2-A above is permitted to ensure a consistent and coherent campus wayfinding system.

iii. Dedication plaque

a. Coordinated through the President’s Office, up to two dedication plaques may be associated with a building project, depending upon funding source.

1) Typically there is one dedication plaque and the content and layout shall be determined in conformance with BOR standards. Refer to BOR Policy Manual 9.7.5 Plaques: http://www.usg.edu/policymanual/section9/C528

2) When there is a rededication of a building due to the reuse of a name, there may be a second plaque.

3) Material – Cast bronze is the generally accepted material for building dedication plaques, but at the discretion of OUA, material choices may be altered to fit building character.

4) Location – Dedication plaques should be located in the primary interior entry or lobby.

iv. Other

a. Any other donor recognition graphics associated with the building namesake should conform to the standards outlined elsewhere within this document and reviewed on a case-by-case basis. Placement within entries or central circulation spaces should be prioritized.

1) Size - The overall size of such graphics should not be larger than the BOR dedication plaques (typically 17 inches by 30 inches).

2) Material – Acrylic, glass, bronze, and aluminum are all common materials employed in donor plaque design. Consistency in material and layout should be a priority throughout a campus building.

3) Content – Content should be limited to donor(s) and/or honoree(s) names, degrees from UGA, and association with the unit or university community leading to gift. Personalized
imagery is discouraged but will reviewed on a case-by-case basis.

4) Location – Should be located in primary interior entry or lobby and coordinated with other building dedication plaques.

D. Interior Space Naming Recognition

i. Room Identification – Functional room identification signage is an appropriate location to co-locate recognition of interior space naming, though the character limitations of these signs may require abridged naming language.

a. Typeface – Because of the primary wayfinding function of these signs, typefaces for space type and room numbers should be limited to sans-serif, ADA compliant options (typically Helvetica) with 5/8-inch lettering. Legacy san-serif is an acceptable alternative. Alternative typefaces should be approved by OUA.

b. Materials – In order to assure cost effective building maintenance and replacement, materials should be limited to the Rowmark ADA signage available for fabrication through UGA FMD in a variety of contrasting background / lettering options. Within Resident Instruction (RI) buildings, the Provost must approve any requested room identification signage that requires third party fabrication as a result of the design or material preferences of the user group. Within non-RI buildings, deviations that require third party fabrication are discouraged and will be the responsibility of the user to fund maintenance and replacement.

c. Examples from across campus are included below:
Consistency between room id with donor recognition and other room id/wayfinding is preferred.

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Classroom

Dr. & Mrs. Needham B. Bateman
ii. Applied Lettering – Interior space naming graphics may be achieved with applied lettering.
   a. Material
      1) Paint / Sandblast / Vinyl – Stenciled characters may be painted on walls, acid-etched or sandblasted onto glass of an entry door, or applied onto either surface with vinyl adhesive lettering. The latter is often most cost effective.
      2) Dimensional Lettering – these applied letters may be flush or pin-mounted to walls. Painted acrylic or extruded metal letters are common. Black, gray, brushed aluminum and anodized bronze are common finishes.
b. Size – Size varies depending upon location but should typically be limited between 1-inch to 3-inch lettering. Vast interior spaces such as auditoriums may merit larger lettering up to 4 inches.

c. Location – Generally, applied lettering should be provided in one location, interior to the named space, with the exception of lettering applied within an entry door lite. In certain circumstances, applied lettering outside the named space may be acceptable, but every effort should be made to reduce the visual clutter of multiple signs types and locations along public corridors and other circulation areas.

d. Content - This method should limit content to the approved naming only.

iii. Typefaces
a. For new construction a consistent use of typeface among donor-recognition graphics shall be utilized throughout a campus building. For renovations and additions, the existing typefaces shall be considered and an appropriate typeface selected that best blends the new and renovated areas.

b. There are four approved typefaces and any deviations shall be submitted to OUA for approval prior to fabrication:

1) Galliard roman, italic and bold are commonly employed font variants. Application of this typeface in donor recognition graphics is encouraged.

2) Designed in 1992 by Lamar Dodd School of Art professor Ron Arnholm, ITC Legacy (32 variants in serif and sans-serif fonts) is encouraged.

3) Times New Roman is also commonly employed across campus and is acceptable if more appropriate than Galliard or ITC Legacy.

4) Helvetica or ITC Legacy Sans-Serif, ADA-compliant typefaces, should be used when donor naming is combined with room identification signage.

iv. Logos
a. Use of the official UGA logo in donor recognition graphics should conform to the styleguide available through the UGA Division of Marketing and Communications Office at http://styleguide.uga.edu/index.php?/entries/logo_guide_and_downloads

b. No commercial or corporate logos or other branding imagery is permitted in association with campus donor recognition graphics. Requests for variances from this rule in building interior spaces shall be made to the Office of the President of the University through coordination with the Project Manager. Requests for variances from this rule in exterior settings should be made first to the President of the University and, if approved, to the Board of Regents.
v. Donor Information Plaques
   a. Material – Acrylic, glass, bronze, and aluminum are all common materials employed in donor plaque design. Consistency in material and layout should be a priority throughout a campus building.
   b. Content – Content should be limited to donor(s) and/or honoree(s) names, degrees from UGA, and association with the unit or university community leading to gift. No personalized imagery should be included.
   c. Location – Interior to named space only. With the exception of the building namesake, donor information plaques should not be placed in public corridors or other circulation areas.
   d. Size – Recommended maximum size is 12 inches x 18 inches, to be deferential to building naming plaques which are typically 17 inches x 30 inches.

vi. Collective Donor Recognition
   a. Panels – recognition of group philanthropic efforts should maintain consistency to greatest extent feasible with the broader recognition graphics program. Digital displays can provide a flexible medium for adding or changing content over time. These collective recognition displays may be located along central corridors and common spaces.

E. Exterior Space Naming Recognition
   i. Named exterior spaces – engraved cast stone or granite set flush within the hardscape of a named plaza or other exterior space is the preferred campus method for donor recognition graphics within the campus landscape.
   ii. Collective Donor Recognition
      a. Pavers – “brick campaigns” are discouraged as a result of the typically low quality and inconsistent paver material associated with these installations. Preferred alternatives may include engraved flagstone, bluestone, or granite pavers.
      b. Consider using these engraved pavers within discrete, un-mortared fields within a plaza or as plaza or walkway borders. Ongoing campaigns that require additions after the initial installation require careful planning and coordination to maintain a seamless appearance over time.
   iii. Other Memorial / Donor Signage within the Campus Environs shall conform to either the Arboretum or Memorial Bench policies. All other request types shall be reviewed on a case-by-case basis by the Campus Environs Review Committee.
      a. Arboretum – For gifts of a minimum value identified in the Arboretum Policy, an engraved granite paver will be added to the DW Brooks Arboretum Memorial.
      b. Benches – For gifts of a minimum value identified in the Memorial or Honorary Bench policy, an engraved granite paver will be set flush within the standard brick paver pad or a bronze plaque (3 inches x 5 inches) will be set flush within concrete pads / sidewalks.
5. SPECIAL EVENTS

A. Temporary Signs

1. Temporary signage is defined as signage that is erected for a period of no more than 30 days and must conform to temporary sign design standards with review and approval for design and placement by UGA Marketing and Communications in accordance with the Outdoor Temporary Signage policy. Requests for temporary signage should be directed to UGA Marketing and Communications at temporarysignage@uga.edu or otherwise adhere to the Temporary Banner signage policy below.

2. Banners - The UGA Division of Marketing and Communications worked with OUA, FMD and others to develop a policies and procedures guide for temporary campus banners, accessible via the following links:

3. No other temporary signage shall be attached to a building or posted within the campus landscape. Only temporary signs (as managed by the Office of Special Events, Facilities Management Department, and/or the Division of Marketing and Communications) are permitted.

B. Pin-up Student Message Boards

1. Student message boards are a part of college/community life that persists despite the emergence of newer forms of social media. However, considering that these sign types present certain maintenance requirements, message boards should be limited to current locations, and in certain locations, reviewed for phasing out.

2. It is recommended that most buildings have an interior message board located in common location (not in direct line of sight when entering building), or by the restrooms, water fountains, or elevators. Size of pin-up area should increase with public / social function of building (i.e. dining hall to have larger pin-up board than instructional facility).
   a. Exterior pin-up boards should be limited to current locations.
1. **GENERAL**
   
   A. The Contractor shall install an official Project Construction Sign at a location agreed upon with the Owner. The sign shall be installed prior to beginning construction on site. The cost shall be included in the Contractor Overhead Cost or Base Bid. The sign shall be a 4’x8’ sheet of plywood with black lettering and white background and adhere to the template provided at the link below. The Contractor shall provide a proof to the Owner for review and approval prior to fabrication.

   B. The Contractor shall obtain the templates from the following location under the Section 01 58 13 Temporary Project Signage sub-heading:

   [https://www.architects.uga.edu/standards](https://www.architects.uga.edu/standards)

   The Contractor shall contact the Project Manager if difficulty is encountered while accessing the files.

   i. Note: in the case of projects administered by FMD, the bottom line of the Project Construction Sign shall state: “Administered by the Facilities Management Division” as directed by Project Manager.

   ii. For Georgia State Financing and Investment Commission (GSFIC) funded projects, include among the listed parties.

   C. The Contractor may provide and install signage as required to direct deliveries. No additional Contractor, Subcontractor, or Supplier signs may be installed on site without prior authorization. It is the intent of the Owner to not allow signs that advertise for the Contractor, Design Professional, Subcontractor, or Supplier.
01 60 00
PRODUCT REQUIREMENTS

1. GENERAL
   A. Under no circumstances shall any asbestos, formaldehyde, or lead containing material be installed under this Contract. New materials shall not contain asbestos, formaldehyde, or lead in any form or quantity (i.e. zero asbestos, formaldehyde, or lead). Manufacturers shall submit certification to the Owner of zero-asbestos, formaldehyde, or lead for all materials used on this Project prior to request for final payment.
01 65 00
PRODUCT DELIVERY REQUIREMENTS

1. GENERAL
   A. The Owner can NOT accept delivery of any materials. Contractor shall unload his/her equipment and materials and move them to the site of the work.
1. GENERAL
   A. Related sections:
      i. 01 29 00 – Payment Procedures
      ii. 01 77 00 – Project Closeout
      iii. 01 81 00 – Facility Performance Requirements
   B. The University of Georgia has implemented recycling and waste management policies for all waste materials removed from its campus as a result of construction and demolition activity. The materials that should be recycled include:
      i. Asphalt
      ii. Concrete, concrete block, concrete masonry units (CMU), slump stone (decorative concrete block), and rocks
      iii. Brick
      iv. Paper, including bond, newsprint, cardboard, mixed paper, packing materials, and packaging
      v. Glass
      vi. Plastics
      vii. Fluorescent Light Tubes, per EPA regulations
      viii. Green materials (i.e. tree trimmings and land clearing debris)
      ix. Metals (ferrous and non-ferrous) including, but not limited to, stud trim, ductwork, piping, reinforcing steel (rebar), roofing, other trim, steel, iron, galvanized sheet steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze.
      x. Wood (non-pressure/chemically treated wood) including, clean dimensional wood, pallet wood, plywood, oriented strand board (OSB), and particle board.
   C. The Contractor should make an attempt to recycle or provide for re-use the following additional materials to the extent practical:
      i. Cement Fiber Products including shingles, panels, and siding
      ii. Paint
      iii. Carpet
      iv. Gypsum Wallboard
      v. Ceiling Tiles
      vi. Porcelain Plumbing Fixtures
      vii. Vinyl Composition Tile
   D. The Contractor is required to account for all waste materials removed from the project, and to recycle, salvage, or reuse, to the maximum extent practical, all of the materials listed above if this can be done within 20 miles of the construction site. If there is a cost premium associated with recycling (i.e., if a comingled dumpster must be used due to insufficient space on site for separate dumpsters), the Contractor should identify this cost premium to allow the Project Manager to assist making a decision regarding the best course of action to take for each project. Upon request, the Project Manager will provide assistance to the Contractor in identifying markets for recyclable materials. The Contractor shall make provision as practical for the Project Manager to utilize any recycled materials and processed waste materials on campus. If the Contractor believes
that recycling, salvage, or reuse of any of these materials is impractical, the Contractor should inform the Project Manager before commencement of construction.

E. The Contractor will be required to supply to the Project Manager during the Pre-Construction Meeting a Waste Management Plan which documents procedures to recycle, salvage, or reuse the materials listed above, including 1) separation, hauling and recycling procedures, 2) material recovery facilities and their distance from job site; and 3) markets for each material recovered. This plan must also address training and communications, recordkeeping, and reporting requirements to assure that all waste materials are accounted for properly. At Material Completion, the Plan shall be updated and submitted to the Project Manager with the total quantities of each waste material that was reused, salvaged, recycled, or disposed of, and the markets to which these materials were directed, so that it provides documentation in a single source of waste management performance on the Project.

F. During construction, the Contractor shall maintain records of a) each type of material removed from the job site (including materials that are not recycled), b) the name(s) of specific end destinations for all materials removed (whether recycled or disposed of), and c) weights or measures of all types of materials removed. Every load of waste material that leaves the site must be documented (including receipts, pictures or tickets from material hauler or recovery facility) and reported to the Project Manager on a monthly basis by including with monthly invoice. Refer to Section 01 29 00 Payment Procedures.

G. UGA retains the right to inspect, and subsequently approve or disapprove any and all recycling end markets, reuse or salvage outlets, and/or waste disposal facilities that are involved in the receipt of recyclables and/or waste materials generated from the project. Disapproval of such a market or outlet may be based on past or current violations of federal or state environmental, health, or safety laws, improper disposal activities, risk or liability exposure, excessive distance from the job site, or any other reason deemed sufficient by UGA.

H. The Contractor shall include administrative and recordkeeping costs associated with Construction and Waste Management in the Contractor Overhead Cost and Base Bid. All other associated costs shall be included in the appropriate line item cost of the General Conditions for the Guaranteed Maximum Price.

2. PRODUCTS – Not used

3. EXECUTION

A. The Contract shall complete and submit the Waste and Recycling Report located at the end of this section. This report is intended to assist UGA with tracking completion of sustainable design and facility performance requirements. Each project is required to address all aspects of the Standards whether included in this report or not.
## Date:

### WASTE AND RECYCLING:

A Construction Waste Management Plan documenting procedures to recycle, salvage, or reuse materials was submitted by the Contractor and is dated ________________.

#### Attach list of:

- a) Each type of material removed from the job site (including materials that are not recycled) □
- b) The name(s) of specific end destinations for all materials removed (whether recycled or disposed of), and □
- c) Weights or measures of all types of materials removed during this reporting period. Every load of waste material that leaves the site must be documented (including receipts, pictures or tickets from material hauler or recovery facility) and reported to Owner’s Representative on a monthly basis. □

Total amount of materials sent to landfills to date:

Total amount of materials reused, salvaged, or recycled to date:
1. **GENERAL**

   A. Related sections:
      
      i. 01 77 00 – Project Closeout
      ii. 11 53 13 – Laboratory Fume Hoods
      iii. 11 82 26 – Facility Waste Compactors
      iv. 14 20 00 – Elevators
      v. 21 00 00 – General Fire Suppression Requirements
      vi. 23 05 14 – Variable Frequency Drive
      vii. 23 09 23 – Building Automation & Temperature Control Systems (BAS)
      viii. 23 20 00 – HVAC Piping & Pumps
      ix. 23 21 23 – Hydronic Pumps
      x. 23 22 16 – Steam & Condensate Heating Piping Specialties
      xi. 23 25 00 – HVAC Water Treatment
      xii. 23 64 16.13 – Air-Cooled Chillers
      xiii. 23 64.16.16 – Water-Cooled Chillers
      xiv. 23 65 00 – Cooling Towers
      xv. 23 73 00 – Indoor Central –Station Air-Handling Units
      xvi. 23 81 29 – Variable Refrigerant Flow (VRF) HVAC Systems
      xvii. 26 09 43.19 – Addressable Fixture Lighting Control
      xviii. 26 24 19 – Motor – Control Centers
      xix. 26 32 00 – Packaged Generator Assemblies
      xx. 28 13 00 – Access Control
      xxi. 28 31 00 – Fire Detection & Alarm
      
      B. All startup certification documentation required in this section shall also be provided in the closeout submittal.
      
      C. The closeout manual shall include factory or authorized agent completed and signed start-up certification documentation.
      
      D. Chillers, condensing units, cooling towers, boilers, pumps, VSDs, Variable-Frequency Motor Controllers, AHUs, humidifiers, heat exchangers and water heaters, PRVs, controllers and controlled elements, meters, pre-insulated underground piping, etc., shall be field inspected and tested by the manufacturer or a factory trained authorized representative for installation in compliance with the manufacturer’s installation instructions and recommendations prior to start-up. The manufacturer or a factory trained authorized representative shall perform, or be present at, the start-up. Start-up documentation certifying proper installation and start-up shall be promptly forwarded to the Design Professional and Project Manager after successful start-up.
      
      E. Condenser, chilled water, and heating hot water systems shall not be started until cleaning, flushing, and pre-treatment has been done to the satisfaction of the water treatment contractor.
      
      F. Heating hot water systems shall be cycled through heat up and cool down and checked for leaks prior to handover. Inspection for leaks shall be performed by the TAB agency at the seasonal TAB.
G. Base mounted pumps shall be properly grouted and aligned by, or to the written approval, of a factory certified representative. Contractor shall submit written certification to this effect.
1. GENERAL
   A. Related sections:
      i. 00 00 08 – Design Professional Documentation Requirements & Deliverables
      ii. 01 33 00 – Submittal Procedures
      iii. 01 74 19 – Construction Waste Management & Disposal
      iv. 01 75 00 – Starting and Adjusting
      v. 09 00 00 – General Finishes Requirements
   B. At the end of this section is the sample Contractor & Project Manager Project Close-Out Checklist to be used as a reference for closing out the Project.
   C. Closeout Meeting: The Contractor shall coordinate a Project Closeout Meeting with the Project Manager.
   D. Operations and Maintenance Training:
      i. The Contractor shall coordinate with the Project Manager to schedule training of facility system.
      ii. The Contractor shall submit O&M manuals for review simultaneously to the PM and to the Design Professional at least two weeks prior to O&M training dates. See below for more information regarding items in O&M manuals.
      iii. There shall be at least a two week notice prior to the established training date(s).
      iv. The Contractor shall prepare an agenda with times allocated for each training session.
      v. All training sessions shall be videotaped by a third-party company, unless directed otherwise by the Project Manager.
   E. Closeout-Submittals Format Requirements:
      i. Both the hardcopies and electronic copies shall be organized using the Construction Specifications Institute (CSI) numbering system utilized in the Project Manual. The documentation shall be organized with labeled tabs, and consolidated into one three ring binder to the extent possible. If there are multiple binders, the volumes shall be labeled.
      ii. Electronic Deliverables:
         a. Electronic file names shall be no longer than 15 characters using only Microsoft acceptable file names and shall be delivered by flash drive, file download, or other acceptable deliverable.
         b. For projects that do not require BIM, AutoCAD files shall be version 2017 or later and be whole and complete with NO Xrefs to symbols or other drawings.
         c. All drawings and specifications shall be submitted in AutoCAD (.dwg), Revit (.rvt) (depending on if BIM is utilized), Microsoft Word (.docx), and Adobe PDF (.pdf) formats. All PDF files shall be searchable.
         d. Drawings and specifications shall each be submitted as one PDF binder set and as separate files for each drawing sheet/specification section.
         e. Multivista shall be engaged to incorporate the simplified floor plans for each project into the campus maps under a ‘client-use o&m manual’
The contractor will be responsible for adding color-coded electronic push-pins onto these maps and linking all product data and o&m data to these pins that correspond to the equipment and shut-off valve locations. The o&m training videos will also be linked to these maps to be located in the general 'video' file. The color coding of the push-pins is as follows:

1) Dark Blue - Chilled Water/Hot Water piping associated with HVAC system
2) Light Blue - Domestic, potable water systems associated with the plumbing system
3) Red - Electrical
4) Yellow - Gas, Oil, Steam
5) Green - Sewer
6) Brown - Storm
7) Telecom/Data - Orange
8) Pink (South Arrow) - Fire Extinguishers
9) Pink - Access Control/Security
10) Purple - Irrigation and Fire Protection
11) Grey - HVAC/Mechanical Systems (except Chilled water/hot water)
12) Black - Elevator

F. Prior to submitting the final closeout documents, the Contractor shall forward one set of closeout submittals to the Design Professional and one to the Project Manager for simultaneous review. The comments generated by the Design Professional and Project Manager shall be collected by the Design Professional and consolidated prior to returning to the Contractor for any required revisions. Once all comments have been received, the Contractor shall pickup both copies, address comments, and distribute final sets per information below.

G. The Contractor shall provide to the Project Manager the final closeout submittals including the following (see chart below for quantities and UGA distribution):
   i. Contractor Marked-up Construction Documents and Project Manual: For a Project not utilizing BIM, the Contractor shall provide the Project Manager and the Design Professional marked-up documents (per quantities and formats in the tables later in this section) for both the drawings and specifications that incorporate all change orders, requests for information, and other as-built information per the Contract. For a Project that utilized BIM, the Design Professional and Contractor shall provide to the Project Manager marked-up documents (per quantities and formats in the tables later in this section) for both the drawings and specifications that incorporate all change orders, requests for information, and other as-built information as agreed upon in the BIM Execution Plan.
   ii. Shop Drawings and Submittals
   iii. Operations and Maintenance Manual which includes as a minimum the following items. In addition, include all other items that are Project specific that may be necessary for the facility to be properly maintained.
      a. All close out items
b. Contact List

c. Simplified Site and Building Plan indicating Emergency Utility Shut off devices

d. Finish Schedule including color samples and codes for each coating and color used on the project.

e. Light Fixture Schedule

f. Schedule of all mesh sizes for all strainers used.

g. Test & Balance Report

h. Warranties and Affidavits

i. Contractor Training Videos

iv. Data / Telecommunications: In addition to above, break out separate sets of drawings, specifications, submittals, equipment list, specifically related to data / telecommunications as required in Section 27 00 00 General Communications Requirements.

v. Audio-Visual: In addition to above, break out separate sets of drawings, specifications, submittals, equipment list, specifically related to audio / visual as required in Section 27 41 00.01 Audio-Visual Control System.

vi. Site and Utility Plan: Within 30 days of Material Completion, the Contractor shall provide a layered site plan drawing per OUA Standards to indicate site and utility conditions as constructed. Updates to the Record Drawings to document any field modifications or an as-built survey of site utilities and other features is required to fulfill this closeout documentation. A Simplified Site Plan CAD template including the relevant site features as layers can be downloaded here: https://www.architects.uga.edu/standards.

a. The submitted site plans shall be an AutoCAD (.dwg) file 2007 release or later. All survey information shall be included in the drawing as an External Reference and should be submitted as a separate (.dwg) file. All submitted drawings shall be referenced to NAD 83 State plane coordinates system or to a suitable state plane coordinate system depending on its location. The electronic AutoCAD (.dwg) drawing file shall be submitted via e-mail to the Project Manager.

b. As-built site information shall also provide the size and layout of stormwater management appurtenances including, but not limited to, storm and footer drain laterals.

H. Final Quantities and Distribution: Contractor shall deliver all copies of the closeout submittals to the Project Manager. Refer to charts below for ‘Contractor Closeout Deliverables for OUA Project’ and ‘Contractor Closeout Deliverables for FMD Project’ for quantities and types.
## CONTRACTOR CLOSEOUT DELIVERABLES FOR OUA PROJECT

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<th>CONTRACTOR</th>
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<th>Half Size Printed Drawing Set</th>
<th>Digital Files</th>
<th>Other</th>
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01 77 00.01
PROJECT PHOTOGRAPHY

1. GENERAL
   A. Related sections:
      i. 00 00 08 – Design Professional Documentation Requirements & Deliverables
      ii. 01 77 00 – Project Closeout
   B. Prior to any photography or filming for commercial and/or promotional purposes, Design Professionals, Contractors, and Consultants who wish to do so shall refer to and follow the regulations and procedures outlined at https://mc.uga.edu/policies/external-commercial-documentary-filming-photography-on-campus/
   C. In some cases, the fees associated with the application may be waived; consult with UGA Project Manager.
1. **GENERAL**
   
   A. Related sections:
      i. 09 00 00 – General Finishes Requirements
   
   B. UGA does not require extra stock materials (attic stock) unless space is designated in the completed building.
   
   C. Design Professional shall coordinate any attic stock proposed by the Design Professional with the Project Manager and only provide the items required by the Project Manager.
   
   D. For new and large facilities, Contractor to assist with locating attic stock material in room designated by the Project Manager.
   
   E. Contractor shall label all attic stock with same nomenclature as in Contract documents.
   
   F. All surplus materials stored by the Contractor (other than the Project Manager specified attic stock) shall be removed from UGA properties prior to the Project close-out.
1. GENERAL
A. Related sections:
   i. 00 00 07 – Design Professional Design Process Requirements
   ii. 00 00 08 – Design Professional Documentation Requirements & Deliverables
   iii. 01 29 00 – Payment Procedures
   iv. 01 74 19 – Construction Waste Management & Disposal
   v. 12 46 33 – Interior Waste Receptacles
   vi. 12 93 23 – Trash, Litter, and Recycling Receptacles
   vii. 23 05 19 – Meters & Gages
B. Introduction: The UGA requires and has been implementing efficient and sustainable designs for new construction and renovations for many years. Regardless of whether a project will utilize a third party green building certification system, the Design Professional shall present multiple scenarios with various levels of energy and water conservation options for the Project Manager’s review.
   i. Not all Projects will have sufficient budgets to meet all of the requirements of this section 01 81 00 Facility Performance Requirements. It is the responsibility of the Design Professional and the Contractor (except for Design-Bid-Build delivery method) to provide cost estimates and detailed return on investment options during the Schematic Design and Design Development design phases for the Owner’s evaluation. If at the end of the Design Development phase, as directed by the Project Manager, all of the requirements of this section will not be met, the Design Professional shall submit a variance for approval to document which aspects will not be met.
   ii. These Facility Performance Requirement evaluation and option services through Design Development shall be included in the Design Professional’s Basic Services and the Contractor’s Pre-Construction Overhead Costs and Pre-Construction Fee. The Owner may elect to fully follow this section or to only select portions of this section (due to budget constraints) for incorporation into Construction Documents, and the Owner will not incur any additional design services or Pre-Construction Overhead costs as long as the Facility Performance Requirements and associated systems selections are made and documented prior to the beginning of Construction Documents.
C. Green Building Rating Systems: No specific green building rating system certification is required by UGA; certification is pursued on a per project basis.
D. The design and construction of a new building shall be for at least a fifty-year life with emphasis on minimum life cycle costs rather than low first costs.
E. Energy Performance:
   i. The mechanical, electrical, and plumbing energy related design for all buildings shall comply with International Energy Conservation Code (IECC) – 2015 with Georgia Supplement and Amendments (most up to date adopted amendments).
   ii. Computerized energy budget analysis, forecasting consumption in BTU/GSF/Year is mandatory for all new construction projects over 10,000 square feet that have heating and cooling. Design Professional shall submit a
model output summary and live model to UGA for review with each major design submission and as required to obtain energy savings rebates.

iii. Computerized energy budget analysis, forecasting consumption in BTU/GSF/Year is mandatory for all renovation projects that renovate an entire building (not a portion of a building). Design Professional shall submit a model output summary and live model to UGA with each major design submission and as required to obtain energy savings rebates.

iv. For partial renovation projects, the Design Professional shall submit a passed output summary and associated files from a ComCheck analysis (lighting only).

v. Life cycle cost comparisons with return on investment calculations of different proposed mechanical systems shall be presented at the end of schematic design.

a. Design Professional shall develop narrative of each system with diagrams of major equipment locations and review with Project Manager prior to coordinating costing information.

vi. Metering of utilities shall be reviewed with the Project Manager at the Design Phase Kickoff meeting. For new construction and full building renovation projects, metering of all utilities (electricity, natural gas, steam, and chilled water) shall be provided at the building level and sub-metering of building systems as needed to isolate, manage and optimize building energy use at the system level. See section 23 05 19 Meters & Gauges. In addition, new utility meters shall be connected to the building automation system. Metering requirements for partial renovation projects shall be reviewed on a project-by-project basis.

F. Renewable Energy

i. For new construction and major renovations, the Design Professional shall identify and evaluate opportunities for on-site renewable energy generation including life-cycle cost analysis and return on investment calculations with a target of meeting up to 5% of the project’s predicted annual electrical and/or thermal energy consumption.

G. Water Conservation

i. For new construction and major renovations over $5M, provide design and cost options for the project to conserve 10% and 20% more water, not including irrigation, than the code requirement for the state of Georgia.

H. Storm Water and Condensate

i. Options for collection and reuse of storm water and condensate are required for all new construction projects with special attention given to uses other than irrigation. Storm water best management practices shall be incorporated to exceed the Project jurisdiction storm water quality standards, with a preference for visible and vegetative storm water controls.

ii. Design Professional shall evaluate feasibility of rain water and condensate water collection, distribution and reuse to serve non-consumptive uses including but not limited to cooling tower make-up, toilet flushing and landscape irrigation.

I. Waste & Recycling

i. The University of Georgia is committed to drastically reducing waste and diverting 65% or more of the campus waste stream from landfills. For new construction and major renovations, the project shall provide convenient
facilities for recycling for building occupants and facilities management staff to reduce waste and increase collection of recyclables. See section 01 74 19 Construction Waste Management & Disposal.

J. For UGA Athens Campus only: Use the following outdoor design conditions:
   i. Winter, design dry bulb $10^\circ F$
   ii. Summer, design - cooling $95^\circ F DB / 76^\circ F MCWB$
   iii. Summer, design - evaporation $78^\circ F WB / 89^\circ F MCDB$
   iv. Summer, design - dehumidification $75^\circ F DP / 135.3 HR / 82.3 MCDB$
   v. Degree days heating 2,900 (base 65^\circ F)
   vi. Degree days cooling 1,700 (base 65^\circ F)
   vii. Climate zone Zone 3A

K. Comfort Conditions:
   i. Indoor design conditions shall suit the process and user requirements.
   ii. For comfort conditions use 75 $^\circ F$ DB in summer and 70 $^\circ F$ DB in winter.
   iii. Cooling equipment shall be selected to achieve 50% RH at design cooling conditions and maximum space humidity shall not exceed 60% RH. Positive dehumidification control may be required for high outdoor air supply applications and/or specific process needs. The Design Professional shall determine and confirm in writing all indoor design conditions during Schematic Design.

L. Georgia Power Rebates:
   i. The Design Professional and Contractor shall meet with the Project Manager and Georgia Power and/or Georgia Power’s delegated representatives to determine which, if any, Georgia Power rebates may apply to the Project. The Design Professional and Contractor shall supply all required documentation in a timely manner to assist the Owner with obtaining the rebates and any costs associated with the documentation shall be included in the Design Professional’s Basic Services Fee and the Contractor’s Base Bid or Overhead Costs.

2. PRODUCTS – Not used.

3. EXECUTION
   A. The Design Professional shall complete the Facility Performance Requirement Checklist located at the end of this section. This checklist is intended to assist UGA with tracking completion of sustainable design and facility performance requirements. Each project is required to address all aspects of the Standards whether included in this checklist or not. The Design Professional completes as much as possible as for the Schematic Design deliverable and shall fully complete for the Design Development deliverable. See 01 29 00.
# FACILITY PERFORMANCE REQUIREMENTS CHECKLIST

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<th>PROJECT NAME:</th>
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<td>DESIGN PROFESSIONAL:</td>
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<td>CONTRACTOR:</td>
<td>UGA PROJECT MANAGER:</td>
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## EFFICIENT AND SUSTAINABLE DESIGN:
*Check all that apply.*

- [ ] Contractor provided cost estimates and detailed return on investment options for energy and water conservation during the Schematic Design and Design Development design phases for the Owner’s evaluation.
- [ ] All requirements of Section 01 81 00 – Facility Performance Requirements were met.
- [ ] Not all Facility Performance Requirements in Section 01 81 00 were met, and the Design Professional submitted a variance for approval to document which aspects would not be met.
- [ ] The facility is designed and constructed for at least a fifty year life with emphasis on minimum life cycles costs rather than low first costs.

## GREEN BUILDING RATING SYSTEMS: (See section 1C)
Which Green Building Rating System framework is the project designing to?

Is the project pursuing 3rd party certification? (Yes/No)

If yes, which level of certification is anticipated? (Note: If pursuing LEED-certification and the project achieved lower than Gold, explain primary factors that led to Silver rating or lower as opposed to Gold.)

## ENERGY PERFORMANCE: (See section 1E)
*Check all that apply and fill in the blank as needed.*

If not all requirements of ASHRAE Standard 90.1-2010 are met, list any requested and approved exceptions:

- [ ] The project will achieve energy savings target of 10% or greater.
List anticipated energy savings (%):

- A computerized energy budget analysis, forecasting consumption in BTU/GSF/Year was submitted to owner. (Required for new construction projects over 10,000 square feet that have heating and cooling and renovation projects that renovate an entire building.)

- Life cycle cost comparisons with return on investment calculations of different proposed mechanical systems were presented to Project Manager at the end of Schematic Design.

- Design Professional provided a narrative of each system with diagrams of major equipment locations and reviewed with Project Manager prior to coordinating costing information.

- Metering of all utilities (electricity, natural gas, steam, and chilled water) is provided at the building level.

- Sub-metering of building systems is provided to isolate, manage and optimize building energy use at the system level.

- Design Professional provided the Energy Use Intensity (EUI).

- Design Professional coordinated with UGA PM to obtain updated energy and utility rates to use in LCC calculations.

List all building systems that are not metered separately:

### RENEWABLE ENERGY: (See section 1F)

**Check all that apply and fill in the blank as needed.**

- The Design Professional identified and evaluated opportunities for on-site renewable energy generation including life-cycle cost analysis and return on investment calculations with a target of meeting up to 5% of the project’s energy demand.

List renewable energy strategies evaluated and associated ROI of each:

List renewable energy strategies to be installed:

What percentage of the project’s energy demand is being met by renewable energy?

Does the project incorporate solar-thermal water heating to meet hot water demand? (Yes/No)

If not, explain why not:
**WATER CONSERVATION:** (See section 1G)  
*Check all that apply and fill in the blank as needed.*

- The Design Professional provided design and cost options for the project to conserve 10% and 20% or more water, not including irrigation, than the code requirement for the state of Georgia.

List water conservation features installed:

- What percentage of water conservation above Georgia code requirement is anticipated during typical building operation?

**STORM WATER AND CONDENSATE:** (See section 1H)  
*Check all that apply and fill in the blank as needed.*

- Storm water and condensate water collection and reuse are included in this project.

Describe the system installed and list the intended uses for the reclaim water:

- What percentage of building water demand is met by the storm water and condensate water collection system?

- Storm water best management practices are incorporated to exceed the Project jurisdiction storm water quality standards, with a preference for visible and vegetative storm water controls.

List storm water BMP’s installed:

**OUTDOOR DESIGN CONDITIONS** (For UGA Athens Campus only): (See section 1J)  
*Check all that apply and fill in the blank as needed.*
The following outdoor design conditions serve as basis of design:
- Winter, design dry bulb: 10°F
- Summer, design – cooling: 95°F DB/76° MCWB
- Summer, design – evaporation: 78°F WB/89° MCDB
- Summer, design – dehumidification: 75° DP/135.3 HR/82.3 MCDB
- Degree days heating: 2,900 (base 65°F)
- Degree days cooling: 1,700 (base 65°F)
- Climate zone: Zone 3A

**COMFORT CONDITIONS:** (See section 1K)
*Check all that apply and fill in the blank as needed.*

- The Design Professional determined and confirmed in writing all indoor design conditions during Schematic Design.
- The design conditions suit the process and user requirements.
- Comfort conditions are 75°F DB in summer and 70°F DB in winter.
  - If not, please list conditions used:
  - Cooling equipment is selected to achieve 50% RH at design cooling conditions and maximum space humidity will not exceed 60% RH.
- Is positive dehumidification control needed? Is it provided?

**GEORGIA POWER REBATES:** (See section 1L)
*Check all that apply and fill in the blank as needed.*

- The Design Professional and Contractor met with the Project Manager and Georgia Power representatives to determine which, if any, Georgia Power rebates apply to the Project.
- The Design Professional submitted the project pre-approval application to Georgia Power prior to pre-construction meeting.
- List anticipated rebates:
- The Design Professional and Contractor supplied all required documentation in a timely manner to assist the Owner with obtaining the rebates at no additional cost.
01 91 13
GENERAL COMMISSIONING REQUIREMENTS

1. GENERAL
   A. Related sections:
      i. 00 00 07 – Design Professional Design Process Requirements
      ii. 00 00 08 – Design Professional Documentation Requirements & Deliverables
      iii. 01 75 00 – Starting and Adjusting
      iv. 01 77 00 – Project Closeout
      v. 01 81 00 – Facility Performance Requirements
      vi. 02 22 00 – Existing Conditions Assessment
      vii. 22 00 00 – General Plumbing Requirements
      viii. 23 00 00 – General Mechanical Requirements (HVAC)
      ix. 23 09 23 – Building Automation and Temperature Control System
      x. 26 00 00 – General Electrical Requirements
      xi. 28 31 00 – Fire Detection & Alarm
   B. Description of Commissioning: Commissioning is the systematic process of ensuring that building systems operate and perform according to the Owner’s Project Requirements and operational needs. The Commissioning process oversees, verifies and documents that the facility and its system and assemblies are planned, designed, installed, tested, operated and maintained as required to meet the Owner’s functional intent and the Project Contract Documents. The Commissioning process does not take away from or reduce the responsibility of the Design Professional or Contractor to provide a finished and fully functioning product.
   C. Timeline of Commissioning: For most projects at UGA, the Commissioning process will begin at the beginning of the Design Development stage of the design phase and continue through and conclude at the end of the first year warranty period.
   D. Coordination:
      i. Commissioning Team shall consist of:
         a. Commissioning Provider (CxP)
         b. Construction Team:
            i) Project Manager
            ii) Mechanical Subcontractor
            iii) Electrical Subcontractor
            iv) Plumbing Subcontractor
            v) TAB Subcontractor
            vi) Controls Subcontractor
            vii) Suppliers/Manufacturers (as needed)
         c. Design Professional:
            i) Architect
            ii) Engineers
         d. UGA:
            i) UGA PM
            ii) FMD: Engineering, O&M, UEM, etc.
            iii) OUA (if applicable, ask UGA PM)
            iv) End-user representative(s)
ii. Management: The CxP is hired by the Owner directly. The CxP directs and coordinates the commissioning activities and the reports to the Project Manager. All members of the Commissioning Team work together to fulfill their contracted responsibilities and meet the objectives of the Contract Documents. The CxP shall include in its Commissioning Plans a project specific lists of roles and responsibilities to be discussed and agreed to during the commissioning kickoff meeting. The CxP’s responsibilities are the same regardless of who contracted the CxP.

iii. Scheduling: The CxP will work with the Contractor according to established protocols to schedule the commissioning activities. The CxP will provide sufficient notice to the Contractor for scheduling commissioning activities. The Contractor will integrate all commissioning activities into the master schedule. All parties will address scheduling problems and make necessary notifications in a timely manner in order to expedite the commissioning process. The CxP will provide the initial schedule of primary commissioning events at the commissioning kickoff meeting. The Commissioning Plan provides a format for this schedule. As construction progresses more detailed schedules are developed by the CxP. The Commissioning Plan also provides a format for detailed schedules.

E. Commissioning scope of work may include the following phases as defined in ASHRAE 1.1:

i. Pre-Design Phase: Develop design phase commissioning plan, outline the scope of design requirements and design intent, describe systems to be installed, outline the documentation requirements for each party involved in the commissioning process, define subsequent commissioning procedures and document the process. Interface with the Design Team to refine the construction phases and ensure that the phasing of MEP systems is logical and appropriate. Develop commissioning specifications and functional testing requirements to be included in the bid documents.

ii. Design Phase:
   a. Continuation of Pre-Design and interface with the Design Team to refine the construction phases and ensure that the phasing of MEP systems is logical and appropriate.
   b. Develop commissioning specifications and functional testing requirements to be included in the bid documents.
   c. Review design documentation for compliance with the Standards and shall clearly identify all deviations from the Standards.
   d. Designs shall be reviewed critically for inclusion of design intent, with metrics; included in documents from the schematic design submittal. The design intent with metrics shall be included on the first construction drawing sheet of the associated service.
   e. Metrics shall include system data as described in Informative Annex K, ASHRAE Guideline 1.1 and tailored to the specific project.
   f. The CxP shall verify that the HVAC design documents cover sheet contains at minimum the information listed in Section 00 00 07 Design Professional Design Process Requirements.
g. The CxP shall verify that, at minimum, the HVAC design narratives is project specific, with metrics, shows major equipment locations, main duct and pipe routing, access paths for major equipment, HVAC system zoning and what provision is to be made for 24 / 7 spaces.

iii. Construction Phase:

a. Early Construction: Complete commissioning plan at the beginning of the construction phase. Obtain project schedules, work with contractor to incorporate Cx activities into construction schedule. Gather and review subcontractor submittals and operation and maintenance manuals. Work with subcontractors to develop detailed pre-functional check lists and performance test plans for each system and piece of equipment involved in the commissioning process. CxP shall provide pre-functional checklists and functional test procedures to Contractor, Design Professional, and Project Manager for comment a minimum of 6 weeks prior to their execution.

b. Construction: Conduct site visits to observe construction, noting details that might affect equipment and system performance or operation.

c. Pre-functional Start-up: Coordinate with various subcontractors start-up performance tests. Oversee all start-up tests and ensure that pre-functional performance and checklists are completed, and all deficiencies resolved. CxP shall review Controls Contractor self-created Pre-functional checklist and include items in the CxP checklist that are not duplications.

d. The CxP shall be responsible for coordinating with the drive manufacturer / vendor controls contractor and the TAB agency to ensure that VSDs are adjusted so that harmonic frequencies are skipped.

e. Field Verification/Inspection of Systems: Develop equipment and system functional performance test procedures. Observe and verify proper operation of equipment, systems, and controls based upon functional performance test plans. Verify that corrective measures are taken as needed.

f. Operations and Maintenance Staff Training and Documentation: Reviews the O&M documentation and ensures the presence of complete operation and maintenance manuals. Determine the training needs of the building operation and maintenance staff. Reviews, pre-approve, and coordinate the training provided by subcontractors and verify that training was completed in accordance with training needs and project requirements. Refer to Section 01 77 00 Project Closeout.

iv. Occupancy and Operations Phase:

a. Warranty Review and Seasonal Testing:
   i) Coordinate and supervise:
      a. Seasonal testing (winter and summer)
      b. Deferred testing
      c. Review trends to identify issues and opportunities for system optimization.
d. Correction of deficiencies
   ii) Provide documentation of warranty and seasonal tests.

b. UGA/Cx closeout meeting: The CxP shall meet on campus with the appropriate facilities and maintenance personnel (FMD Engineering, UEM, and O&M for Athens campus; designated facility managers for other campuses) to review building systems and the Systems Manual. Coordinate with controls personnel to also attend this meeting.

F. Systems to be considered for commissioning shall include the following:
   i. Building Envelope Systems (refer to Section 01 81 00 Facility Performance Requirements)
   ii. Building Automation Systems (BAS), including links to remote monitoring and control sites and integration to other systems (refer to Section 23 09 23 Building Automation and Temperature Control Systems.)
   iii. Plumbing Systems
   iv. Lighting Controls
   v. HVAC Systems
   vi. Laboratory Control Systems, including integration to the building automation system HVAC Equipment and Systems
   vii. Energy Recovery Equipment and Systems
   viii. Smoke Evacuation Systems
   ix. Water Reclaim Systems
   x. Utility Metering Systems
   xi. Emergency Power Systems
   xii. Other systems as required on a project-by-project basis.