

# NC State University Design and Construction Guidelines

## Division 00 Planning & Design - General Issues

### 1.0 Purpose

- A. The Design and Construction Guidelines are applicable to all projects and are intended to define planning, design and construction requirements that are particular to the university and that are to be incorporated into the Construction Documents. These guidelines do not circumvent or replace building code requirements. It is NC State's expectation that designers have knowledge of and will produce designs to meet code and industry standards. These guidelines are to be considered in conjunction with the Campus Design Guidelines and Standards as discussed in the Physical Master Plan - A Campus of Neighborhoods and Paths.

[www.ncsu.edu/facilities/physical\\_master\\_plan](http://www.ncsu.edu/facilities/physical_master_plan)

### 2.0 General Requirements

- A. Maintainability - University buildings are to be constructed to generally having an expected life of 50 to 100 years. Designers shall consider long-term durability and maintainability when selecting equipment, materials, and finishes for new facilities and renovations.
- B. Design Flexibility - The ability to accommodate growth and change is an important criterion in the design of structural, mechanical, and electrical systems and selection of materials. The designer should accommodate in the design of new buildings a reasonable flexibility for future expansion, growth, or change of programs.
- C. Sustainability- All projects will continue the university's efforts to apply sustainable design practices by adapting an integrated design approach. Each project will require innovation and management from the beginning of the design process and continue through construction.
- D. Accessibility for People with Disabilities - University policy on accessibility is to go beyond the minimum requirements of building code and accessibility standards to provide more than minimally adequate accommodations for everyone; utilizing the most stringent standards for accessibility. All campus destinations shall be accessible to all people, using the principles of Universal Design which "is the design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design." Accessible pedestrian and vehicular routes on campus are provided on the university Accessibility Map  
[www.ncsu.edu/facilities/accessmap/proj-accessmap.htm](http://www.ncsu.edu/facilities/accessmap/proj-accessmap.htm)
- E. Hallowed Places - Places on campus that hold particular meaning for the university community are designated as Hallowed Places. Modifications to historic buildings and Hallowed Places shall include the retention and repair of historic character-defining elements. Two buildings on campus are designated local historic landmarks; Holladay Hall and Springhill House.
- F. Use of Color – NC State colors are red and white. White may be used on buildings as a trim color. Red will be used in the campus environment and building exteriors only when

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specifically associated with the university image or way finding signage. The use of red and white as a predominant interior color scheme is limited to athletic or physical education facilities.

- G. Service Access - Service personnel must be able to access equipment and perform routine maintenance without disruption to campus activities. Equipment clearances must be sufficient to permit replacements over the life of the facility. Mechanical equipment rooms must have access to the exterior and have convenient service-vehicle access. The designer should take into account the needs for service vehicles when providing parking designs for new facilities.
- H. Access to the roof shall be through full width stairways or penthouse structures if mechanical equipment is located on the roof. If the equipment has large components (fans, motors, etc.), then full elevator access to the roof is required. A passive fall protection system for flat roofs shall be provided and incorporated into the architectural design of the building.
- I. Special Scheduling and Construction Restraints - Designers must show construction staging areas, relocated roadways and walkways, and other special requirements on drawings. Specifications shall contain details of “quiet hour” periods in areas such as the Library and residence halls and during exam periods.
- J. Pedestrian and non-ambulatory traffic areas around the construction limits must be maintained in a clean and safe condition at all times. Consideration for people who require mobility, visual or hearing accommodations shall be planned to provide appropriate detours and shall be included in construction documents. Handicapped parking shall not be used for staging areas.
- K. NC State must be able to access dumpsters and loading docks during all phases of construction and renovation (for impacted building and adjacent buildings). Temporary dumpster locations shall be indicated on plans.
- L. Preferred Manufacturer List – NC State has specific requirements for various types of products which shall be incorporated into all projects.
- M. A cornerstone shall be incorporated into all new building construction with the following criteria:
  - 1. Coordinate / compliment the building architecture.
  - 2. Place along a visible path or entry to the building.
  - 3. Made of natural or cast stone material.
  - 4. Carved with the date of year only; Times New Roman font.
  - 5. Set within brick joint pattern; three (3) brick units high and three (3) brick units wide.
  - 6. Located at a minimum of 12” above grade.
  - 7. Placed such that the landscaping does not obstruct view of the cornerstone.

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