

NC State Design and Construction Guidelines

01500 – Temporary Facilities

1.0 Purpose:

- A. The following guidelines for the use of temporary facilities during construction shall be incorporated into the Master Specification 01500 – Construction Facilities and Temporary Controls. Consult the NCSU Project Manager for project specific questions and situations.
- B. References include the following:
 - NCSU Design and Construction Guideline 02230 (Site Clearing) and contract drawings for specific tree protection requirements.

2.0 Design Guideline:

- A. Project Signs - All Formal Projects shall be identified with one 4' wide x 8' high construction sign visible to passersby that includes NC State logo in color, the project name, design consultant(s), and contractor(s). With the exception of company and university logos, the type will be black lettering on a white background. A color graphic of the project shall be included on the sign. Information about sign details shall be coordinated with the NC State Project Manager. Directional signs for material deliveries are allowed within the construction area, if required, and shall be 4' wide x 2' high maximum, black and white only. The NCSU Project Manager shall approve the design of the sign and the sign text. **[Designer shall coordinate with NCSU PM for a sample layout of temporary construction sign.]**
- B. **[Designer shall provide detailed pedestrian detour plans as part of the contract documents** and show quantity, location, and layout of pedestrian detour signs on the detour plan.] Sidewalks shall remain open and accessible during construction. Should sidewalks require closure, an accessible and safe temporary (concrete, asphalt or plywood) pedestrian path around construction shall be required if an alternative accessible route is not close by. Temporary paths shall be shown on the contract documents clearly showing path and type of construction.
- C. The construction site shall be secured. Contract documents shall clearly indicate limits of construction and location of the construction fence. The fence shall be constructed of heavy-duty chain link material, have a minimum height of six feet and shall have a continuous top tubular rail. Swing gates shall be included at every access to the enclosed area and shall be lockable. The fence shall have an integral visual barrier or shall have shading type material applied and maintained for the duration of the project. Locks for the gates shall be interlocked with a padlock provided by NCSU in order to allow access by NCSU or other emergency personnel in case of emergency.

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- D. Walks, Root Zones, and Lawn Protection - A permit, issued by NC State Grounds Management, is required for vehicular access to brick and landscape areas. For single loads up to 9000 lbs., a ¾" minimum plywood base shall be placed over brick paving, root zones of trees, and lawn areas to be protected from vehicular work traffic at a construction site. For single loads over 9000 lbs., two layers of ¾" plywood is required. Root zones and lawn areas shall not be covered with plywood for more than 3 consecutive days.

- E. For projects of duration longer than 3 days or requiring multiple heavy loads into a construction landscape protection zone, a construction entry road shall be included in the contract documents **[Designer must show on the contract drawings, including a detailed cross section]** to indicate access route for heavy loads into the site. This construction entry shall consist of 10' x 16' oak logging mats on 6" coarse, chipped, hardwood placed on a permeable structural, filter fabric, top-dressed with an additional 10" of hardwood mulch. Mulch and logging mats shall be supplemented throughout the project to keep the access area structurally functional. At the end of the project the logging mats shall be offered to Facilities Operations for salvage or disposed of off site at the discretion of the Owner.

- F. All pruning of existing plant materials, including roots and limbs, for construction clearances shall be done by a trained, licensed, insured arborist and according to standards set forth in the National Arborist Association publication "Standards for the Pruning for Shade Trees". All pruning shall be coordinated with and inspected by NC State Grounds Management. **[The Designer and University Landscape Architect shall assess the necessity for this work during the design phase and determine whether work will be performed by contractor or NC State Grounds Management. Designer shall identify on contract drawings who will perform pruning.]**

- G. Transportation/Parking. **[Designer shall incorporate latest NC State Transportation Guidelines for Parking, Traffic Control and Road Closures.]**