

**University of Houston Master Specification**

<Insert Project Name>  
<Insert U of H Proj #>

<Insert Issue Name>  
<Insert Issue Date>

SECTION 31 1013 - SITE PREPARATION

Revise this Section by deleting and inserting text to meet Project-specific requirements.

This Section uses the term "Landscape Architect." Change this term to match that used to identify the design professional as defined in the General and Supplementary Conditions.

Verify that Section titles referenced in this Section are correct for this Project's Specifications; Section titles may have changed.

Delete hidden text after this Section has been edited for the Project.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. The Contractor's attention is specifically directed, but not limited, to the following documents for additional requirements:
  - 1. The current version of the *Uniform General Conditions for Construction Contracts*, State of Texas, available on the web site of the Texas Facilities Commission.
  - 2. The University of Houston's *Supplemental General Conditions and Special Conditions for Construction*.

1.2 SUMMARY

- A. This Section includes the following:
  - 1. Felling of trees including removal of stumps, roots, and other debris.
  - 2. Removing shrubs, grass, weeds, and other understory vegetation.
  - 3. Construction of protection fencing around trees.
  - 4. Cleanup and removal of debris and material, labor, tools, machinery and processes necessary to complete the above

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
  - 1. Include recommendations for application and use.
  - 2. Include test data substantiating that products comply with requirements.

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1.4 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-preparation operations.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without written permission from Owner and Authorities Having Jurisdiction.
  - 2. Provide alternate routes around closed or obstructed traffic ways if required by the Owner or Authorities Having Jurisdiction.

1.5 QUALITY ASSURANCE

- A. Qualifications: Work shall be performed by personnel trained and experienced in the execution of the Work and under the direct supervision of a superintendent on Contractor's staff.
- B. Workmanship: Perform work in conformance with recognized acceptable practices. Where job requirements require deviation from those practices, obtain approval from the Owner before proceeding.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and compliance with applicable state and Federal laws.
  - 1. Store and handle materials as recommended in writing by materials manufacturer.

1.7 EXISTING CONDITIONS

- A. Protection of Existing Utilities:
  - 1. Existence and location of underground items are not guaranteed. Investigate and field verify before starting work. Excavation and backfill in the vicinity of existing items of work shall be carried out with extreme caution.
  - 2. Contractor shall be held responsible for any damage and for maintenance and protection of existing utilities.
  - 3. Indicate on record drawings where there is conflict between field conditions and Drawings.

PART 2 - PRODUCTS

2.1 EQUIPMENT

- A. Machinery: Machinery shall be approved by Owner. Contractor shall provide equipment and machinery sufficient for proper execution of Work.

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- B. Herbicide: Pre-emergent herbicide effective in controlling the germination or growth of weeds within planted areas.
- C. Siltation Fencing: Complying with ASTM D6461.
- D. Temporary Tree and Plant Protection Fencing:
  - 1. Provide ASTM A392, Type II, Class 1, **1.2 oz./sq. ft. (366 g/sq. m)** zinc-coated chain link fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist according to "CLFMI Product Manual" and requirements indicated below:
    - a. Fabric Height: Five feet.
    - b. Wire Diameter: **0.148 inch (3.76 MM)**.
    - c. Mesh Size: **2 inches (50 mm)**.
  - 2. Posts: ASTM F1043, Group IC-L, light industrial round steel pipe.
  - 3. Standard Round Wire Ties: For attaching chain-link fabric to posts according to the following:
    - a. Hot-Dip Galvanized Steel: **0.106-inch- (2.69-mm)** diameter wire; galvanized coating thickness matching coating thickness of chain-link fence fabric.

**PART 3 - EXECUTION**

**3.1 PREPARATION**

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Protect existing site improvements to remain from damage during construction.
  - 1. Verify with the Owner which objects are to be removed and salvaged and which objects are to be preserved in place.
  - 2. Restore damaged improvements to their original condition, as acceptable to Owner.

**3.2 TREE PROTECTION**

- A. Erect and maintain temporary fencing around drip line before starting site clearing. Remove fence when construction is complete.
- B. Do not excavate within dripline unless otherwise indicated.
- C. Repair or replace trees and vegetation indicated to remain that are damaged by construction operations, in a manner approved by Landscape Architect.

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**3.3 UTILITIES**

- A. Locate, identify, disconnect, and seal or cap off utilities indicated to be removed.
  - 1. Arrange with utility companies to shut off indicated utilities.
- B. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
  - 1. Notify Owner’s Representative not less than two weeks in advance of proposed utility interruptions to allow conformance with Utility Department Outage Notification protocols.
  - 2. Do not proceed with utility interruptions without Owner’s written permission.

**3.4 EXISTING WEED AND GRASS STRIPPING**

- A. Strip area within work limits shown on Drawings of lawns and vegetation under the direction of the Landscape Architect.
  - 1. Strip soil to depths and in such a manner to prevent intermingling with underlying subsoil or other objectionable material.
  - 2. Remove heavy growths of vegetation from areas before stripping soil.
  - 3. Where trees are indicated to remain, stop topsoil stripping a sufficient distance from dripline to prevent damage to main root system.
  - 4. Stock pile topsoil where directed.
    - a. Construction storage piles to freely drain surface water but not onto adjacent properties.
    - b. Cover storage piles if required to prevent windblown dust
- B. Method of removal shall remove a minimum amount of topsoil and shall be even so that there is not a general change to overall grading.

**3.5 CLEARING AND GRUBBING**

- A. Comply with requirements of Division 31 Section “Clearing and Grubbing.”

**3.6 PROTECTION**

- A. Protect prepared areas from additional compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations:
  - 1. Storage of construction materials, debris, or excavated material.
  - 2. Parking vehicles or equipment.
  - 3. Foot traffic.
  - 4. Erection of sheds or structures or picnic tables.

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5. Excavation or other digging unless otherwise indicated.
6. Impoundment of water.

**3.7 CLEANING AND DISPOSAL**

- A. Keep adjacent paving and construction clean and work area in an orderly condition.
- B. Disposal: Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
  1. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities.

END OF SECTION 31 1013

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