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311000 - Site Clearing

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SECTION 31 1000 - SITE CLEARING

A. Section Includes:

1. Protecting existing vegetation to remain.
2. Removing existing vegetation.
3. Clearing and grubbing.
4. Stripping and stockpiling topsoil.
5. Removing above- and below-grade site improvements.
6. Disconnecting, capping or sealing site utilities.
7. Dig Safe Requirements: <http://www.unh.edu/facilities/dig-safe> .
8. Temporary erosion and sedimentation control measures.
9. Arborist review and reporting for existing conditions and remediation post construction activities

B. General: Any construction activity within 110 feet of the ECOLine on the UNH Campus may require full time monitoring by an OQ certified person in accordance with the Code of Federal Regulations (CFR) Title 49 Part 192. Each Project will require employment of this OQ Certified person.

1. Protect and/or restore existing vegetation and habitat to remain based on efforts to achieve SS Credit 5.1

1.2 MATERIAL OWNERSHIP

A. Except for stripped topsoil and other materials indicated to be stockpiled or otherwise remain University's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.3 PROJECT CONDITIONS

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from University and authorities having jurisdiction.
2. Provide alternate routes around closed or obstructed traffic ways if required by University or authorities having jurisdiction.
3. Provide DOT traffic and pedestrian signage as required to safely direct vehicles and pedestrians.

B. Salvable Improvements: Carefully remove items indicated to be salvaged and store on University's premises where indicated.

C. Utility Locator Service: Notify utility locator service for area where Project is located before site clearing. UNH Dig Safe: <http://www.unh.edu/facilities/dig-safe> .

- D. Do not commence site clearing operations until temporary erosion- and sedimentation-control and plant-protection measures are in place.
- E. The following practices are prohibited within protection zones:
 - 1. Storage of construction materials, debris, or excavated material.
 - 2. Parking vehicles or equipment.
 - 3. Foot traffic.
 - 4. Erection of sheds or structures.
 - 5. Impoundment of water.
 - 6. Excavation or other digging unless otherwise indicated.
 - 7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.

1.4 MATERIALS

- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Chapter 5, Division 31, Section 312000.
 - 1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.

1.5 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Locate and clearly identify trees, shrubs, and other vegetation to remain or to be relocated.
- C. Protect existing site improvements to remain from damage during construction.
 - 1. Restore damaged improvements to their original condition, as acceptable to University.

1.6 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control.
<http://des.nh.gov/organization/divisions/water/aot/index.htm>
- B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.

- D. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

1.7 TREE AND PLANT PROTECTION

- A. General: Protect trees and plants remaining on-site according to requirements in Chapter 5, Division 32, Section 322231.
- B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Architect.

1.8 EXISTING UTILITIES

- A. Locate, identify, disconnect, and seal or cap utilities indicated to be removed or abandoned in place.
 - 1. Arrange with utility companies to shut off indicated utilities.
- B. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by University or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify Project Manager not less than three days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without Project Manager's written permission.
- C. Removal of underground utilities is included in Chapter 5, Division 33 Sections.

1.9 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
 - 1. Grind down stumps and remove roots, obstructions, and debris to a depth of 18 inches (450 mm) below exposed subgrade.
 - 2. Use only hand methods for grubbing within protection zones.
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
 - 1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches (200 mm), and compact each layer to a density equal to adjacent original ground.

1.10 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.

- B. Strip topsoil to depth of 6 inches (150 mm) in a manner to prevent intermingling with underlying subsoil or other waste materials.
- C. Stockpile topsoil away from edge of excavations without intermixing with subsoil. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.

1.11 SITE IMPROVEMENTS

- A. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.

1.12 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off University's property.
- B. Separate recyclable materials produced during site clearing from other non-recyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities. Do not interfere with other Project work.

END OF SECTION 31 1000