

PART 1 – GENERAL

1.1 RELATED SECTIONS

- A. Section 31 11 00 – Site Clearing
- B. Section 31 23 00 – Excavation and Fill
- C. Section 31 23 16 – Dewatering
- D. Section 31 25 00 – Erosion and Sediment Control
- E. Section 32 91 00 – Planting
- F. Section 01 33 00 – Submittal Procedures
- G. Section 01 45 00 – Quality Control
- H. Section 01 74 19 – Construction Waste Management and Disposal

1.2 REFERENCES, CODES, AND STANDARDS

- A. American National Standards Institute (ANSI)
 - 1. ANSI Z133.1 – American National Standard for Arboricultural Operations – Safety Requirements
- B. American Society for Testing and Materials (ASTM)
 - 1. ASTM D6274 – Standard Guide for Tree Preservation During Construction
 - 2. International Code Council (ICC)
 - 3. International Building Code (IBC), latest edition
 - 4. Occupational Safety and Health Administration (OSHA)
 - 5. OSHA 29 CFR 1926 – Safety and Health Regulations for Construction
 - 6. Society of American Foresters (SAF)
 - 7. SAF Best Management Practices for Forestry
 - 8. U.S. Department of Agriculture (USDA)
 - 9. USDA Urban Forestry Best Management Practices
 - 10. Local municipal and state regulations regarding tree protection and clearing operations

1.3 DEFINITIONS

- A. Selective Clearing: Removal of designated vegetation including trees, shrubs, and undergrowth according to project limits and plans, preserving specified vegetation and natural features.
- B. Protected Tree: Trees identified for preservation on project drawings or by the Owner/Architect.
- C. Clearing Limits: Boundaries established to define areas of selective clearing and protect remaining vegetation.

1.4 SUBMITTALS

A. Action Submittals

1. Clearing Plan indicating limits of clearing, protected trees, and tree protection measures.
2. Schedule of selective clearing operations.
3. List of equipment to be used for clearing.
4. Material Safety Data Sheets (MSDS) for herbicides or chemical agents if applicable.
5. Tree Protection Plan prepared by a qualified arborist if required.
6. Proposed erosion and sediment control measures related to clearing activities.

B. Informational Submittals

1. Qualifications of personnel performing selective clearing.
2. Manufacturer's literature for tree protection materials and equipment.
3. Photographic documentation of existing site conditions before clearing.
4. Waste management plan for clearing debris including disposal or recycling methods.

1.5 QUALITY ASSURANCE

- A. Perform selective clearing in accordance with ANSI Z133.1 safety standards and OSHA regulations.
- B. Engage personnel experienced in selective clearing and preservation techniques.
- C. Utilize qualified arborists for tree protection supervision and consultation.
- D. Verify clearing limits and protection measures in coordination with the Owner/Architect prior to commencement.
- E. Conduct pre-clearing site meeting to review limits, protection procedures, and safety requirements.
- F. Protect remaining vegetation in accordance with ASTM D6274 and USDA Urban Forestry Best Management Practices.
- G. Implement erosion and sediment control measures compliant with Section 31 25 00 and local environmental regulations.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials such as tree protection fencing, signage, and erosion control devices in original packaging with labels intact.
- B. Store materials on-site in designated areas protected from damage, moisture, and contamination.
- C. Protect stored materials from weather and construction traffic.
- D. Handle all clearing equipment and materials to prevent damage to protected vegetation and site features.
- E. Maintain access for emergency vehicles and personnel during clearing operations.

1.7 WARRANTY

- A. Provide warranty for selective clearing work, including protection of preserved vegetation, for a minimum period of one year from date of Substantial Completion.
- B. Warranty shall cover replacement or remediation of damage to protected trees and vegetation caused by clearing operations or failure to implement protection measures.
- C. Provide manufacturer's warranties for tree protection materials and equipment as applicable.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Tree Protection Fencing and Barriers
 - 1. Orange Safety Fence by Tenax Corporation
 - 2. Tree Save Products by Dewitt Company
 - 3. Chain Link Temporary Fencing by Master Halco
- B. Tree Protection Materials
 - 1. Burlap Wraps by Green-Tek Inc.
 - 2. Tree Trunk Guards by Tree Tech LLC
- C. Erosion and Sediment Control Products
 - 1. Silt Fence by Filtrexx International
 - 2. Straw Wattles by North American Green
- D. Herbicides and Chemical Agents (if applicable)
 - 1. Rodeo Herbicide by Dow AgroSciences
 - 2. Garlon Herbicide by Dow AgroSciences
- E. Clearing Equipment
 - 1. Hydraulic Excavators by Caterpillar Inc.
 - 2. Brush Chippers by Vermeer Corporation
 - 3. Chainsaws by Stihl Inc.

2.2 MATERIALS

- A. Tree Protection Fencing
 - 1. High-visibility plastic mesh fencing, minimum 4 feet high, orange or equivalent color.
- B. Tree Protection Signs
 - 1. Weather-resistant signage indicating "Tree Protection Zone – Keep Out" or similar.
- C. Trunk and Root Protection
 - 1. Burlap or approved tree wraps to protect trunks during clearing operations.
 - 2. Mulch or wood chips for root zone protection where required.
- D. Erosion Control

1. Silt fencing and straw wattles meeting local environmental standards.
- E. Herbicides
 1. Only approved herbicides applied by licensed applicators in accordance with manufacturer's instructions and local regulations.

PART 3 – EXECUTION

3.1 PREPARATION

- A. Verify clearing limits and protected vegetation locations as per contract documents and site markings.
- B. Install tree protection fencing and signage around protected trees and vegetation prior to clearing operations.
- C. Conduct pre-clearing meeting with site personnel, arborist, and Owner's representative to review protection measures and safety protocols.
- D. Coordinate with utilities to locate and protect underground and overhead services.
- E. Implement erosion and sediment control measures before clearing begins.

3.2 SELECTIVE CLEARING PROCEDURES

- A. Remove only vegetation indicated for clearing on plans. Preserve designated trees, shrubs, and ground cover.
- B. Cut trees and shrubs cleanly at ground level or as otherwise indicated. Remove stumps only if specified.
- C. Use equipment and methods that minimize soil disturbance and damage to adjacent vegetation.
- D. Avoid operation of heavy equipment within root protection zones of preserved trees.
- E. Dispose of cleared vegetation promptly according to waste management plan. Recycle or reuse materials where possible.
- F. Apply herbicides only if approved and in accordance with manufacturer instructions and environmental regulations.

3.3 PROTECTION OF VEGETATION

- A. Maintain tree protection fencing and signage throughout clearing operations. Repair or replace damaged fencing immediately.
- B. Protect root zones of preserved trees by limiting soil compaction and disturbance. Use mulch or protective mats if equipment must pass near roots.
- C. Protect trunks with wraps or guards if mechanical injury is possible.
- D. Monitor health of preserved trees during and after clearing; notify Owner if damage occurs.

3.4 SITE RESTORATION

- A. Remove tree protection fencing and signage after clearing is complete and site is stabilized.
- B. Restore disturbed areas outside clearing limits as specified in related planting and site work sections.
- C. Dispose of all debris, including stumps and roots, in accordance with local regulations.
- D. Final grade clearing limits to prevent erosion and promote drainage.

3.5 CLEANING

- A. Remove all equipment, materials, and debris from the site at completion of clearing.
- B. Leave the site in a clean, safe, and orderly condition.

3.6 FIELD QUALITY CONTROL

- A. Arborist to inspect tree protection installations and clearing operations periodically.
- B. Correct any deficiencies related to tree protection or clearing methods immediately.
- C. Document inspections and corrective actions for Owner's records.

3.7 PROTECTION

- A. Protect site and adjacent properties from damage caused by clearing operations.
- B. Prevent unauthorized access to clearing areas with fencing and signage.
- C. Comply with all safety regulations including OSHA during clearing operations.

END OF SECTION

BUILDING FOR ROGERS FACILITIES DEPARTMENT
ROGERS, AR

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DEMX ARCHITECTURE
FAYETTEVILLE, AR