

SECTION 02201 – CLEARING AND GRUBBING

PART 1 – GENERAL

1.1 GENERAL

- A. The WORK under this Section includes providing all labor, materials, tools and equipment necessary for clearing, grubbing, removing and disposing of all vegetation and debris (including earthen materials incidentally removed with vegetation and debris), and removing structures and obstructions located within the limits shown on the Drawings or designated by the ENGINEER, except such objects as are designated to remain in place or are to be removed in accordance with other sections of these Specifications. The WORK shall also include the preservation from injury or defacement of all vegetation and objects designated to remain.

PART 2 – PROJECTS (Not Used)

PART 3 – EXECUTION

3.1 GENERAL

- A. The ENGINEER will establish the limits of the WORK and will designate all trees, plants, shrubs and other items to remain. The CONTRACTOR shall protect and preserve all items designated to remain.
- B. Miscellaneous trimming of trees or shrubs designated to remain shall be conducted when directed by the ENGINEER. Trimming shall be in accordance with good tree surgery practice.
- C. All vegetation and debris to be removed shall be disposed of by the CONTRACTOR within areas indicated on the Drawings or areas approved by the ENGINEER. When burning is permitted, it shall be under the constant care of competent employees. Burning shall be performed in a manner such that anything designated to remain on the right-of-way, the surrounding forest cover, or other adjacent property will not be jeopardized. Burning shall be done in accordance with all applicable laws and ordinances. The CONTRACTOR shall obtain all required permits.
- D. The CONTRACTOR is responsible for:
1. Securing waste disposal sites,
 2. Obtaining written permission of the owner of the disposal site and
 3. Securing any required permits, if none is indicated on the Drawings.

The cost of securing such sites shall be borne by the CONTRACTOR. If requested by the ENGINEER, the CONTRACTOR shall furnish the permit numbers of all required permits for disposal sites.

- E. Merchantable timber within the clearing limits will become the property of the CONTRACTOR, unless otherwise specified.

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3.2 GRUBBING

- A. All trees, stumps, roots and other objects not designated to remain shall be cleared and grubbed. If the area is not to be benched, the removal of undisturbed stumps and roots and nonperishable solid objects that will be a minimum of four feet below the embankment surface and that do not extend more than six inches above the original ground line, will not be required.
- B. In areas outside of the grading limits of cut and embankment areas and to the established limits of the WORK, all stumps and nonperishable solid objects permitted to remain in place shall be cut off not more than six inches above the ground line or low water level.
- C. Except in areas to be excavated, stump holes and other holes from which obstructions are removed shall be backfilled with suitable materials and compacted in accordance with the Contract Documents.

3.3 HAND CLEARING

- A. In areas where Hand Clearing is indicated on the Drawings or designated by the ENGINEER, no equipment on wheels or tacks shall be used. Care shall be taken to insure that the grass, moss cover, or the natural ground is not disturbed. Stumps shall be cut flush with the ground, except that in areas within four feet or more of embankment cover, stumps may be cut off six inches above the natural ground.

3.4 SELECTED TREE REMOVAL

- A. Trees designated by the Engineer, outside of the normal clearing and grubbing and/or hand clearing limits, shall be removed and disposed of in accordance with this Section. Trees to be removed may be designated by the ENGINEER at any time during the performance of the contract, and may be subject to the conditions specified under Hand Clearing. Trees designated for selective removal shall be cut off within six inches of the ground.

3.5 REMOVE AND RELOCATE BUSH OR TREE

- A. Bushes or trees shown on the Drawings for removal and relocation shall be removed and relocated as directed by the ENGINEER.
- B. Bushes and trees designated for removal and relocation shall be carefully removed with enough of the root wad kept intact to ensure the survival of the bush or tree in its new locations. Bushes and trees designated for removal and relocation that are damaged, or that do not survive as a result of the transplanting, shall be replaced by the CONTRACTOR at its expense. The relocated bush or tree shall be placed to original depth at a location within 15 feet of the original location, as directed by the ENGINEER.

END OF SECTION