

DIVISION 200 - EARTHWORK

SECTION 201 - CLEARING AND GRUBBING

201.01 Description. This work includes removal and disposal of unwanted material from the right-of-way, easements, road approaches, project and borrow pit sites, and areas designated in the contract. Also, this work includes the preservation from injury and defacement of vegetation and objects designated to remain. The Contractor shall clear and grub before the Contractor does the grading operations.

201.02 Materials. Paint required for cut and scarred surfaces of trees and shrubs selected for retention shall be an acceptable asphaltum base paint prepared especially for tree surgery.

201.03 Construction Requirements.

(A) Clearing and Grubbing. The Contractor shall clear the natural ground of vegetative material and obstructions interfering with the proposed work. Vegetative material include trees, logs, stumps, roots of downed trees, brush, residue of agricultural crops, grass and weeds. Obstructions include buildings, fences, lumber and trash piles and other unwanted material within. The following are the limits:

(1) Highway Construction Area. This includes structures, frontage roads and streets, ramps, approaches, ditches and channels with a bottom width of twelve (12) feet or more, and other constructed accessory roads and connections. The Contractor shall extend such areas to a width of five (5) feet outside excavation and embankment slope lines. If slopes require rounding, the Contractor shall extend the areas to the outside limits of slope rounding.

(2) Ditches and Channels With a Bottom Width of Less Than Twelve (12) feet. Such areas shall extend to a width of two (2) feet outside the slope lines.

(3) Material sites within the right-of-way.

(4) Areas enclosed by interchange loops and ramps.

The Contractor shall grub the area below the natural ground surface within the limits specified above of vegetative material and obstructions interfering with the proposed work. The Engineer will not permit unsuitable materials to remain in or under embankments and dikes except those shown in this section.

When authorized, the Contractor shall cut undisturbed stumps and roots and nonperishable solid objects not more than six (6) inches above

the existing ground. The Engineer will not require grubbing of the remaining stumps and large roots. *|
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The undisturbed stumps and roots and nonperishable solid objects shall be a minimum of three (3) feet below subgrade or slope of embankments. The exceptions are locations where constructing a structure, driving piles, excavating subdrainage trenches and removing unsuitable material. *|
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The Contractor shall backfill stump holes and other holes with suitable material and compact according to Subsection 203.02(B) - Embankment Construction except in areas to be excavated. *|
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The Contractor shall protect trees and shrubbery required to be preserved from injury at no cost to the State. The Contractor shall cut trees to be removed as not to injure standing trees and shrubbery that are to be preserved. *|
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The Contractor shall cut off low hanging branches of trees extending over the roadway within twenty (20) feet of finished grade close to the boles according to the contract. Also, in removing such branches, the Contractor shall remove other branches according to the contract to present the tree with a balanced appearance. The Contractor shall treat cuts and scars resulting from the removal of branches with a heavy coat of acceptable tree paint. *|
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The total area to be exposed shall not exceed the limits of Section 639. *|
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(B) Removal and Disposal of Material. The Contractor shall dispose the material removed as specified above at a suitable land disposal site not visible from the roadway. If the Contractor disposes the material outside the right-of-way, the Contractor shall make arrangements and bear the costs involved in the disposal. On County Public Works projects, the Contractor shall dispose the material only at dump sites acceptable to the Engineer. *|
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The Contractor may reduce degradable material to chips of a maximum thickness of one-fourth (1/4) inch. Also, the Contractor may dispose of in areas enclosed by interchange loops and ramps or between the slope lines and right-of-way lines according to the contract. The Contractor shall uniformly distribute the chips disposed of in the above areas on the ground surface. Also, the Contractor shall mix the chips with the underlying earth to such extent that the chips do not support combustion. *|
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The Contractor shall leave the roadway and adjacent areas with a neat and finished appearance. The Contractor shall dispose slashings, inflammable material and other debris. The Engineer will not permit open burning of material. *|
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201.04 **Method of Measurement.** If the proposal does not show a contract item for clearing and grubbing, the Engineer will not measure clearing and grubbing for payment. *

If the proposal provides a contract item for clearing and grubbing, the Engineer will measure clearing and grubbing by the square foot or acre. *

The Engineer will not measure clearing and grubbing when contracted on a lump sum basis. *

If the proposal does not show a contract item for removing large trees, the Engineer will not measure removing large trees for payment. *

If the proposal provides a contract item for removing large trees, the Engineer will measure large trees per each, square feet or acre. *

201.05 **Basis of Payment.** If the proposal does not show a contract item for clearing and grubbing, the Engineer will not pay for clearing and grubbing separately. The Contractor shall consider this work incidental to the various contract items. *

If the proposal provides a contract item for clearing and grubbing, the Engineer will pay for the accepted quantities of clearing and grubbing at the contract unit price per square feet, acre or on a lump sum basis. *

If the proposal does not show a contract item for removing large trees, the Engineer will not pay for removing large trees. The Contractor shall consider this work incidental to the various contract items. The Engineer will not make separate compensation. *

If the proposal provides a contract item for removing large trees, the Engineer will pay for the accepted quantities of removing large trees at the contract unit price per each, square feet, or acre. *

The respective unit prices or lump sum amounts paid shall be full compensation for equipment, tools, labor, materials and incidentals necessary to complete the work. *

The Engineer will make payment under: *

Pay Item	Pay Unit
Clearing and Grubbing (____ Sq. Ft.)	Lump Sum
Clearing and Grubbing	Square Feet
Clearing and Grubbing	Acre
Removing Large Trees	Each
Removing Large Trees	Square Feet
Removing Large Trees	Acre