ground line. All trees and underbrush across the width of the right-of-way, as designated by the Engineer shall be considered to be grouped together as a single length in measuring the total length of clearing. Spaces along the right-of-way in which no trees are to be removed or trimmed or underbrush cleared shall be omitted from the total measurement. All length thus arrived at, added together and divided by 1,000, shall give the number of 1,000-foot R1-10 units of clearing. This unit includes the removal or topping, at the option of the Contractor; of danger trees outside of the right-of-way when so designated by the Engineer. (Danger trees are defined as dead or leaning trees which, in falling, will affect the operation of the line.) The Contractor shall not remove or trim shade, fruit or ornamental trees unless so directed by the Engineer.

R1–20. This unit is identical with R1–10 except that width is 20 feet (to be measured 10 feet on each side of the pole line).

R1–30. This unit is identical with R1–10 except that width is 30 feet (to be measured 15 feet on each side of the pole line).

R1–40. This unit is identical with R1–10 except that width is 40 feet (to be measured 20 feet on each side of the pole line).

RC1–10, RC1–20, RC1–30, RC1–40. These units are identical to the respective R1 units except that chemical treatment of stumps is required in addition to the clearing of underbrush, tree removal and tree trimming.

TM-12. The unit is 1,000 feet in length and) feet in width (to be measured) feet on one side of pole line or centerline of structures) of actual clearing of right-of-way. This includes clearing of underbrush, tree removal, and such tree trimming as is required so that the right-ofway, except for tree stumps which shall not $_{ extstyle }$ in height, shall be clear from the exceed ground up on one side of the line poles carrying conductors. (See Detail A, Drawing TM-12-2A). The length of actual clearing shall be measured in a straight line parallel to the horizontal line between poles or centerline of structures and across the maximum dimension of foliage cleared projected to the ground line (See Detail B, Drawing TM-12-2A). All trees and underbrush across the width of the right-ofway shall be considered to be grouped together as a single length in measuring the total length of clearing (See Detail C, Drawing TM-12-2A). Spaces along the right-of-way in which no trees are to be removed or trimmed or underbrush cleared shall be omitted from the total measurement. All length thus arrived at, added together and divided by 1,000 shall give the number of TM-12 units of clearing. The Contractor shall not remove or trim shade, fruit or ornamental trees unless so directed by the Engineer in writing.

TM-12 (1). This unit is identical with TM-12, except the full width of the right-of-way to be cleared shall be ____ (___) feet wide (to be measured ____ (___) feet on each side of the pole line or centerline of structures) (See Detail D, Drawing TM-12-2A.)

TMC-12, TMC-12(I). These units are identical to the respective TM units except that chemical treatment of stumps is required in addition to the clearing of underbrush, tree removal and tree trimming.

TM-13. The unit, for purpose of quoting, is 1,000 feet in length of clearing off the right-of-way. The Engineer will select those trees of the right-of-way that he deems to be a hazard to the line and will designate them to the Contractor in writing as danger trees. When so designated, the Contractor shall remove or top such trees at his option except that the Contractor shall trim and not remove shade, fruit or ornamental trees unless otherwise directed by the Engineer in writing (See Drawings TM-12-2A and TM-13 for examples of danger trees).

The measurement of length of right-of-way to be cleared shall be considered as a straight line parallel to the horizontal line between poles or centerline of structures, such measurement of length to be based on maximum dimension of foliage (not trunk) projected to the ground line (See Details E, F, Ğ, and H, Drawing TM-12-2A). Dead trees having no foliage shall be measured across the maximum dimension and multiplied by two. (See Detail F, Drawing TM-12-2A). Each tree so removed shall be added together to determine the total length of clearing. All length thus arrived at, added together and divided by 1,000 shall give the number of TM-13 units (Example: Details E, F, G, and H, Drawing TM-12-2A, total .1 of a TM-13

TM-14. The unit is 1,000 feet in length and) feet in width (to be measured _) feet on one side of right-of-way center line) of actual clearing of right-of-way. Trees and underbrush should be cleared from the ground up within 10 feet of any structure location. The Engineer will mark the trees and brush to be cleared to provide 'undulating'' boundaries. Low growing trees and brush are to be left in the right-of-way to the extent it will not be hazardous to the line or will not interfere with the access road. The length of actual clearing shall be measured in a straight line parallel to the horizontal line between poles or center line of structures and across the maximum dimension of foliage cleared projected to the ground line (See Detail B, Drawing TM-12-2A). All trees and underbrush cleared across the right-of-way shall be considered to be grouped together as a single length in measuring the total length of clearing (See Detail C, Drawing TM-12-2A). Spaces along the right-of-way in which no trees are to be removed or trimmed or underbrush cleared shall be omitted from the total measurement.

TM-14 (1). This unit is identical with TM-14 except the full width of the right-of-way to be cleared shall be ____ (___) feet wide (See Detail D, Drawing TM-12-2A).

TM-15. The unit is 1,000 feet in length and

(____) feet in width (to be measured _____)

(____) feet on one side of the right-of-way center line) of actual clearing of the right-of-way. Trees and underbrush should be cleared from ground up within 10 feet of any structure location. The Engineer will mark the trees and brush to be cleared to provide a "feathered" appearance in the right-of-way. Low growing trees and brush are to be left in the right-of-way to the extent it will not be hazardous to the line or will not interfere with the access road.

The length of actual clearing shall be measured in a straight line parallel to the

horizontal line between poles or center line of structures and across the maximum dimension of foliage cleared projected to ground line. (See Detail B, Drawing TM–12–2A). All trees and underbrush cleared across the right-of-way shall be considered to be grouped together as a single length in measuring the total length of clearing (See Detail C, Drawing TM–12–2A). Spaces along the right-of-way, in which no trees are to be removed or trimmed or underbrush cleared shall be omitted from the total measurement.

TM-15 (1). This unit is identical to TM-15 except the full width of the right-of-way to be cleared shall be ____ (___) feet wide (See Detail D, Drawing TM-12-2A).

Additional Requirements. (When specifying units denote type of disposal A or B).

- A. Trees, brush, branches and refuse shall, without delay be disposed of by such of the following methods as the Engineer will direct (Engineer to strike out methods not to be used).
 - 1. Burned
 - 2. Piled on one side of right-of-way
- 3. Roller chopped and left on right-of-way in such a manner as not to obstruct roads, ditches, drains, etc.
 - 4. Other (Describe)
- B. Trees that are felled shall be cut to commercial wood lengths, stacked neatly, and left on the right-of-way for the landowner. Commercial wood length means the length designated by the Engineer but in no case shall it be required to be less than
- ____(___) feet. Brush, branches and refuse shall, without delay, be disposed of by such of the following methods as the Engineer will direct (Engineer to strike out methods not to be used).
 - 1. Burned
 - 2. Piled on one side of right-of-way
- 3. Roller chopped and left on right-of-way in such a manner as not to obstruct roads, ditches, drains, etc.
 - 4. Other (Describe)

Specifications

In preparing the right-of-way, trees shall be removed, underbrush cleared, and trees trimmed so that the right-of-way shall be clear from the ground up or as specified. Trees fronting each side of the right-of-way shall be trimmed symmetrically unless otherwise directed by the Engineer. Dead trees beyond the right-of-way which would strike the line in falling shall be removed. Leaning trees beyond the right-of-way which would strike the line in falling and which would require topping if not removed may be removed or topped at the direction of the Engineer.

Where RC or TMC units are specified, the right-of-way shall be cleared in accordance with the instructions in the preceding paragraph and in addition, all stumps one-half inch in diameter and larger shall be sprayed as specified by the Engineer.