

## Clearing and Snagging – 326 DOCUMENTATION

### I. Reference Materials

The following is a list of reference materials to be used in clearing and snagging design and construction.

- a. Section IV Technical Guide, Practice Standard 326, Clearing and Snagging
- b. National Engineering Handbook, Section 20
- c. All Federal, State, and local laws for construction in streams and burning shall be followed.
- d. King's Handbook
- e. Practice Standard 582, Open Channels
- f. Technical Release #25

### II. Site Investigation and Surveys

- a. Delineate areas that are affecting the flow capacity of the stream.
- b. Estimate "N" values of channel before and after cleanout.
- c. Determine locations for disposal areas.
- d. Determine lateral extent of clearing and snagging area.
- e. Provide tree count and channel length.
- f. Estimate of equipment needed to complete the job.
- g. Check for buried utilities.
- h. Determine engineering job class.

### III. Design, Plans, and Specifications

- a. The preparation of the plans and specifications will be in accordance with Standard and Specification 326, Clearing and Snagging.
- b. As a minimum, a plan view will be developed showing the extent and location of the areas to be cleared and/or snagged.
- c. Existing features will be shown so the area of work can be located.
- d. Construction notes to clarify or furnish direction in construction.
- e. Quantities - Estimate
- f. Estimate of equipment hours needed to complete the job.
- g. Construction specifications are to be provided with each set of plans. Most specifications will be site specific.

## Clearing and Snagging – 326 DOCUMENTATION

### IV. Layout

Layout surveys will be recorded in loose-leaf or bound survey books. Set necessary stakes to show extent of removal. Survey notes will be kept in the format as shown in Chapter I, Engineering Field Manual and/or Technical Release 62. Layout may consist of flagging individual trees or staking out areas to be cleared or snagged.

### V. Compliance Checking - "As-Built" Plans

- a. Compliance checking - Record in field notes.
  1. Measure areas, measure channel length, count trees, measure volume as appropriate.
  2. Check all quantities and document
  3. State the construction is complete according to plans and specifications. Date and sign by individual making determination.
- b. "As-Built" plans are a record of constructed facilities on the official file copy of the plans. On the "as-builts" show:
  1. Significant design changes.
  2. Final quantities.
  3. Identify "as-builts" on plans.