

STATEMENT OF WORK

Clearing and Snagging

CODE (326)

DESIGN

Deliverables:

1. Design documentation showing that the criteria in NRCS practice standard is met and compatible with other planned and applied practices.
 - a. Practice purpose(s) as identified in the conservation plan
 - b. List of landowner (participant) responsibilities, including permits, (Reference Form CO-ENG-13, Notification of Participant Responsibilities).
 - c. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06)
 - d. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Geology and Soil Mechanics (NEM Subpart 531a)
 - ii. Hydrology/Hydraulics
 - iii. Structural
 - iv. Environmental Considerations
 - v. Vegetation
 - vi. Safety Considerations (NEM Part 503-Safety, Subpart A, 503.10 through 503.12)
2. Provide landowner/participant with drawings, specifications, and sketches that describe the requirements to install the practice and obtain necessary permits. As applicable, drawings and specifications must comply with Local, State, and Federal (OSHA) safety requirements.
3. Design Report and Inspection Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32), to include the following items:
 - a. General description of work
 - b. Items of work requiring inspection, testing, or both
 - c. Timing of inspections or tests
 - d. Skills or certifications required by inspectors
4. Operation and Maintenance Plan.
5. Certification that the design meets practice standard criteria and complies with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3)). For jobs completed by NRCS employees, affix the approval signature of the individual with delegated engineering job approval authority to the drawings. For jobs completed by non-NRCS employees, affix a Colorado Professional Engineer's seal to design and construction documents, when required by state laws and regulations.
6. Itemized cost estimate and list of materials.
7. Design modifications during installation as required.

INSTALLATION

Deliverables

1. Preconstruction conference with client and contractor. (Reference Form CO-ENG-13, Notification of Participant Responsibilities).
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used (NEM Part 512, Subpart D Quality Assurance Activities, 512.33)

- b. Inspection records
5. Facilitate and implement required design modifications with client and original designer.
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations, and NRCS policies during installation.
7. Certification that the installation process and materials meets design and permit requirements. May use form CO-ENG-1 for this certification.

CHECK OUT

Deliverables

1. As-built documentation.
 - a. Extent of practice units applied
 - b. Drawings
 - c. Final quantities
2. Certification that the installation meets NRCS standards, specifications, design requirements, and complies with permits (NEM Subpart A, 505.03 (c) (1)). May use Form CO-ENG-12 for this certification.
3. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Clearing and Snagging, 326
- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Critical Area Planting, 342
- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Streambank and Shoreline Protection, 580
- CO-ENG Forms: eFOTG Section IV, Tools
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- National Engineering Handbook (NEH) Part 654, Stream Restoration Design
- National Biology Handbook (NBH) Part 614, Stream Visual Assessment Protocol