

**STATEMENT OF WORK
SPRINKLER SYSTEM (442)
Virginia**

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN

Deliverables:

1. Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other planned and applied practices.
 - a. Identify, discuss, and document client needs and recommend method of resolution.
 - b. Practice purpose(s) as identified in the conservation plan
 - c. List of required permits to be obtained by the client
 - d. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). This includes contacting MISS UTILITY (811 or 1-800-552-7001) a minimum of 3 days before beginning construction.
 - e. List of facilitating/component practices. Include conservation practice name and code number.
 - f. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. System Capacity
 - ii. Depth of Application, Rate, Frequency, Pressure, Uniformity and Runoff
 - iii. Hydraulics
 - iv. Filters and chemical injection
2. Provide written plans and specifications, including sketches and drawings, to the client that adequately describe requirements to install the practice and obtain necessary permits. Develop plans and specifications shall be developed in accordance with the requirements in the Virginia NRCS Conservation Practice Standard *Sprinkler System (Code 442)*.
3. Operation and Maintenance Plan
4. 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).
5. Irrigation Water Management Plan as detailed in Virginia NRCS Conservation Practice Standard *Irrigation Water Management (Code 449)*.
6. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM VA505.03, Amendment VA-22).

INSTALLATION

Deliverables

1. Pre-Installation conference with client and contractor.
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 (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 meet design and permit requirements.

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CHECK OUT

Deliverables

1. As-Built documentation.
 - a. "Red-line" drawings including but not limited to documentation of final construction, changes to initial design, and changes in materials used.
 - b. Extent of practice units applied
 - c. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM VA505.03, Amendment VA-22).
3. Progress reporting.

REFERENCES

- VA NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - *Sprinkler System (Code 442)*.
- VA NRCS Field Office Technical Guide (eFOTG), Section IV, Operation and Maintenance Plan – *Sprinkler System (Code 442)*.
- VA NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – *Irrigation Water Management (Code 449)*.
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook.
- NRCS Cultural Resources Handbook.