

**STATEMENT OF WORK (SOW)  
DRAINAGE WATER MANAGEMENT (554)  
SOUTH DAKOTA  
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These deliverables apply to this individual practice. For other planned practice deliverables, refer to those specific SOW's.

## **DESIGN**

### **Deliverables**

1. Pre-design conference with client and Natural Resources Conservation Service (NRCS) representative.
2. 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. Practice purpose(s) as identified in the conservation plan.
  - b. List of required permits to be obtained by the client.
  - 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. List of facilitating/component practices.
  - e. 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. Vegetation.
    - v. Environmental Considerations.
    - vi. Safety Considerations (NEM, Part 503-Safety, Subpart A, 503.10 through 503.12).
3. Sufficient copies of written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
4. Operation and Maintenance Plan. (National Operation and Maintenance Manual 500.70 and 500.40 through 500.42.)
5. Certifications that the design meets practice standard criteria and comply with applicable laws and regulations (NEM, Subpart A, 505.03(a)(3)).
6. Develop and sign an engineer's cost estimate based on project quantities. Provide revised cost estimates in the event of changes to project quantities or completion of final design.
7. Develop a list of practices for the project that includes the practice unit and extent. Provide a revised list of practices, practice units, and extents in the event of changes to these values or completion of the final design.
8. Provide an anticipated installation schedule.
9. Design modifications during installation as required.

## **INSTALLATION**

### **Deliverables**

1. Pre-installation conference with client, contractor, and NRCS representative.
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, Subchapter 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.

## **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 and specifications and is in compliance with permits (NEM, Subpart A, 505.03(c)(1)).

3. Progress reporting.

## REFERENCES

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- NRCS South Dakota Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Drainage Water Management (554)
- NRCS NEM
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- SDEDSM