

STATEMENT OF WORK
Shallow Water Development and Management (646)
TENNESSEE

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. Practice purpose(s) as identified in the conservation plan.
 - b. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). Tennessee One Call notification at number 811 is client's responsibility.
 - c. List of applicable facilitating/component practices [e.g. Dike (356), Critical Area Planting (342), Structure for Water Control (587)].
 - 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, NEH Part 651, AWMFH, Appendix 10d).
 - ii. Hydrology/hydraulics.
 - iii. Structural.
 - iv. Vegetation.
 - v. Environmental considerations.
 - e. Evaluation and completion of TN-CPA-25, Environmental Effects for Conservation and Areawide Plans.
2. Written plans and specifications shall be provided to the client that adequately describe the requirements to install the practice and obtain necessary permits, including:
 - a. Location and vicinity map.
 - b. Sketches and drawings.
 - c. Plan view, with contours, if applicable.
 - d. Profiles, if applicable.
 - e. Cross sections, if applicable.
 - f. Construction specifications.
 - g. Quantity and cost estimates.
 - h. Appropriate signatures.
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).
4. Documentation of discussion of Operation and Maintenance in Assistance Notes.
5. Certification that the design meets practice standard criteria and comply with applicable laws and regulations [NEM Subpart A, 505.03 (a) (3)].
6. Design modifications during installation, as required.

INSTALLATION**Deliverables**

1. Preinstallation conference with client and contractor.
 2. Staking and layout according to plans and specifications including applicable layout notes.
 3. Installation inspection (according to inspection plan, as appropriate).
 - a. Actual materials used (Part 512, Subchapter D, Quality Assurance Activities, 512.33)
 - b. Inspection records.
 4. Facilitate and implement required design modifications with client and original designer.
 5. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations, and NRCS policies during installation.
 6. Certification that the installation process and materials meet design requirements.
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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 [NEM, Subpart A, 505.03 (c) (1)].
3. Progress reporting.

REFERENCES

- NRCS Tennessee Field Office Technical Guide (e-FOTG), Section IV, Conservation Practice Standard – Shallow Water Development and Management (646).
- NRCS Tennessee Field Office Technical Guide (e-FOTG), Section IV, Conservation Practice Standard – Critical Area Planting (342), Dike (356), and Structure for Water Control (587), as applicable.
- NRCS National Engineering Manual (NEM).
- National Engineering Handbook, Chapter 6 (Structures).
- National Engineering Handbook, Chapter 13 (Wetland Restoration, Enhancement and Creation).
- NRCS National Environmental Compliance Handbook.
- Tennessee Environmental Permitting Handbook (www.state.tn.us/environment/permits/index.html).
- NRCS Cultural Resources Handbook.