

STATEMENT OF WORK**Pond (378)
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. Impacts on adjacent properties and structures.
 - c. Survey notes that show that a thorough and detailed site survey was completed.
 - i. Survey notes shall be in accordance with NRCS Technical Release 62, Engineering Field Handbook, Chapter 1, and/or standard industry practice.
 - ii. If survey equipment with automatic/electronic data collection devices is used, a printout of the data and a disk with the electronic files shall be included in the file.
 - iii. Elevations shall be referenced to a benchmark. A temporary benchmark with an assumed elevation is acceptable. The temporary benchmark shall be clearly identified in the field notes and located where it cannot be damaged by construction.
 - 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). Tennessee One Call notification at 811 is client's responsibility.
 - 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).
 - (1) Earthfill materials.
 - (2) Moisture and compaction requirements.
 - (3) Sealing requirements, if required (See Pond Sealing or Lining Statement of Work).
 - ii. Hydrology/Hydraulics.
 - (1) Drainage area.
 - (2) Rainfall and runoff volumes.
 - (3) Elevation-storage volume relationship.
 - (4) Spillway capacities (type, sizes, elevations).
 - iii. Structural including hazard class as appropriate.
 - (1) NRCS Job Classification (see engineering approval authority).
 - (2) Hazard classification (for the purpose of CPS 378, all dams should be Class A – low hazard).
 - (3) Earth fill and excavation quantities.
 - (4) Material quantities (pipes, anti-seep collars, trash racks, fencing . . .).
 - (5) Clearing quantities.
 - iv. Vegetation.
 - f. Evaluation and completion of TN-CPA-25, Environmental Effects for Conservation and Areawide Plans.
2. 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.
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). Usually required for Class B and C structures.
4. Operation and Maintenance Plan.
5. Certifications that the design meets practice standard criteria and complies with applicable laws and regulations [NEM Subpart A, 505.03(b)(2)].
6. Design modifications during installation as required.

INSTALLATION

Deliverables

STATEMENT OF WORK
Pond (378)
TENNESSEE

1. Pre-installation 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.
 - 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.

CHECK OUT

Deliverables

1. As-built documentation.
 - a. Extent of practice units applied.
 - i. Profile and cross-sections of excavations.
 - ii. Profile and cross-sections of embankment.
 - iii. Profile and cross-sections of spillways (principle and auxiliary).
 - iv. Type, size, and elevations of pipe inlets and outlets.
 - v. Vegetation establishment, if required (See Critical Area Planting (342) Statement of Work).
 - b. As-built drawings marked with constructed elevations.
 - 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 – Pond (378).
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook.
- NRCS Cultural Resources Handbook.