

**STATEMENT OF WORK  
Karst Sinkhole Treatment (527)  
Pennsylvania**

**These deliverables apply to this individual practice. Section 4 of the Pennsylvania Technical Guide (PA FOTG) should also be reviewed for additional practice-specific requirements and Design and Check Data Requirements where those have been developed. For other planned practice deliverables refer to those specific Statements of Work.**

## **DESIGN**

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### **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. List of required permits to be obtained by the client
  - c. Compliance with NRCS national and state utility safety policy (M\_210\_NEM\_503\_A-Safety, Engineering Activities Affecting Utilities, 503.00 through 503.6)
  - d. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
    - i. Geology and Soil Mechanics (M\_210\_NEM\_531\_A-Geology, Geologic Investigations)
    - ii. Hydrology/Hydraulics
    - iii. Structural
    - iv. Environmental Considerations
    - v. Vegetation
    - vi. Safety Considerations (M\_210\_NEM\_503\_A-Safety, Engineering Activities Affecting Utilities, 503.10 through 503.12)
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 (M\_210\_NEM\_511\_B- Design, Documentation, 511.11) and (M\_210\_NEM\_512\_D-Construction, Quality Assurance Activities, 512.30 through 512.32).
4. Operation and Maintenance Plan
5. Certification that the design meets practice standard criteria and complies with applicable laws and regulations (M\_210\_NEM\_505\_A-Non-NRCS Engineering Service, Introduction, 505.3).
6. Design modifications during installation as required.

## **INSTALLATION**

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### **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 (M\_210\_NEM\_512\_D-Construction, 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.

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**CHECK OUT**

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**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 (M\_210\_NEM\_505\_A-Non-NRCS Engineering Service, Introduction, 505.3.C.(1)).
3. Progress reporting.

**REFERENCES**

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- NRCS Field Office Technical Guide (FOTG), Section IV, Conservation Practice Standard – Karst Sinkhole Treatment (527)
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook