

STATEMENT OF WORK
Karst Sinkhole Treatment (527)
Minnesota

These deliverables are the minimum requirements that apply to this individual practice. Service providers (TSP or other) shall prepare and document deliverables for the Design, Installation and Checkout sections and submit deliverables to both the landowner and NRCS.

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. 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, 503.0 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 (NEM Part 501 Subpart A, or Part 505 Subpart A).
6. Design modifications during installation as required.

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 (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.

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 Part 501 Subpart A or Part 505 Subpart A).
3. Progress reporting.

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REFERENCES

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