

STATEMENT OF WORK
Waste Facility Cover (367), Roof Structures
Minnesota

DESIGN

Deliverables:

1. Design Report which includes, but is not limited to the following:
 - i. Summary of project objectives and work to be completed.
 - ii. Current and planned animal numbers, storage period, waste characteristics and storage or stockpile locations and requirements.
 - iii. Structural design and loadings for roof structures including soil bearing strength requirements.
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. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Soil Investigation to determine bearing strength. When presumptive values are used rather than computed strengths, provide soil description that this value is based upon.
 - ii. Structural (wind and snow loads), Mechanical and Appurtenances.
 - iii. Roof water and other clean water diversion, conveyance, and outlet.
 - iv. Stray voltage considerations, if applicable, to meet National Electric Code.
2. Adequate plan view, profiles, cross sections, details, and specifications to ensure that the project can be properly constructed and secure permits.
 - a. A plan view of the site which includes but is not limited to the following items:
 - i. Location of outdoor lots and practices to be installed
 - ii. Soil boring/investigation locations
 - iii. Water well locations
 - iv. Any outdoor lots or storage facilities to be abandoned
 - v. Adequate topographic detail to show how clean and contaminated runoff will be addressed when this is a factor on the design
 - vi. NOTE: Building plans engineered and sealed by a building company may be incorporated by reference, however verification of foundation requirements must be provided. The designer is responsible to ensure that foundation requirements have been verified.
3. Inspection Plan as appropriate. (NEM Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.33)
 - a. The inspection plan must describe the type and frequency of testing and inspection and the qualifications of the person doing the work. Include method of foundation verification.
4. Certification that the design meets practice standard criteria and complies with applicable laws and regulations. In addition to the certification required by state law, the following statement is required: *"To the best of my professional knowledge, judgment, and belief, these plans meet applicable NRCS standards."* (NEM Subpart A, 505.03(b)(2))
5. An Engineer's Cost Estimate is not required, however it is recommended to help the owner evaluate contractor proposals.
6. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). This requires that a Gopher State One-Call advisory be placed on the plans. The required wording is: *"State law and NRCS policy require that the excavator contact Gopher State One-Call at (800)252-1166 for utility locations 48 hours prior to the start of excavation work"*.
7. Operation and Maintenance Plan

INSTALLATION

Deliverables

1. Documentation of pre-construction conference with client and contractor.
2. Verification that client has obtained any required permits.
3. Staking and layout according to drawings and specifications including applicable layout notes.
4. Installation inspection according to the inspection plan including verification of foundation conditions.
5. Facilitate required design or cost modifications with client, original designer, permitting and funding agencies.
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.

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7. Certification that the installation process and materials meet design and permit requirements.

CHECK OUT

Deliverables

1. As-Built documentation.
 - a. As-built Drawings
 - b. 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)). The required wording is *“To the best of my professional knowledge, belief, and judgment, the installed practice meets NRCS standards.”*
3. Completion report in accordance with permit requirements.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Waste Storage Facility, 313.
- NRCS Agricultural Waste Management Field Handbook (AWMFH)
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook