

STATEMENT OF WORK
Short Term Storage of Animal Waste and By-Products (318)
Iowa

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. Refer to practice specific Statements of Work for conservation practices associated with this practice.

PRE-DESIGN

Deliverables:

1. Documents that demonstrate that adequate planning activities have been completed.
 - a. Initial site visit with client to assess resource concerns and collect planning information
 - b. Report or conservation assistance notes summarizing pre-design meeting(s) with client.
 - i. Identify the resource concern being addressed and the landowner objectives.
 - ii. Define roles and responsibilities of all parties that will be involved in the project.
 1. Landowner
 2. Designer
 3. NRCS and/or other funding source(s)
 4. Contractor
 - iii. Advise client on potential compliance issues with federal, state, tribal, and local laws, regulations and NRCS policies.
 - c. The practice is included in a conservation plan and meets one or more of the purpose(s) described in the Conservation Practice Standard.
 - d. Completed IA-CPA-52 showing NEPA requirements have been met and documented (i.e. cultural resources and threatened and endangered (T&E) species).

DESIGN

Deliverables:

1. A copy of survey notes which show that a thorough and detailed site survey was completed.
 - a. Survey notes shall be in accordance with NRCS Technical Release 62, Engineering Field Handbook (EFH), Chapter 1, Engineering Surveys, and/or standard industry practice.
 - b. If survey equipment with automatic / electronic data collection devices is used, an electronic copy of the survey shall be provided on a non-volatile medium such as CD-ROM. In lieu of an electronic copy of the data, a print out of the data may be included in the file. Both printed and electronic data shall be provided in a delimited ASCII format that includes point number, easting, northing, elevation, and description for each surveyed point.
 - c. Rod Readings or Elevations shall be referenced to a bench mark. A temporary bench mark (TBM) may be acceptable. The TBM shall be selected to ensure its availability through completion of construction activities.
 - d. LiDAR elevations can only be used for planning purposes.
 - e. The design survey shall meet the accuracy standard for Rough Surveys as presented in EFH Chapter 1. Survey elements required include but are not limited to:
 - i. Benchmark and control points, property lines, grade breaks, and other important features such as exposed geological features, fences, wells, underground utility markers, culvert inlets and outlets, tile intakes and outlets, roads rights-of-way, power poles, and buildings.
 - ii. The survey shall extend far enough to show that adjacent conditions meet the requirements of the practice standard.
 - iii. A topographic survey of the planned work area and/or area impacted by implementation of this practice standard.

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2. Design documents that demonstrate the criteria in the practice standard have been met and are compatible with other planned and applied practices.
 - a. Practice standard substantiating data, computations, and analyses to develop plans and specifications including but not limited to:
 - i. Foundation soils field classification
 - ii. Storage period and capacity
 - iii. Covering and Anchorage as required
 - iv. Maximizing clean water diversion
 - v. Environmental considerations (e.g. air quality, ground and surface water quality, distance from neighboring structures and roads, wells and other water sources).
 - vi. Erosion control/Seeding.
 - vii. Biosecurity and Safety considerations.
 - b. All design documentation is shown as checked by staff with appropriate job approval authority. Service providers shall identify and engage a qualified person to check the design methodology, technical references, plan drawings, and computations for accuracy.
 - c. Documentation that adequate land rights have been obtained if needed.
3. Written plans and specifications which adequately describe the requirements to install the practice and obtain necessary permits (NEM Part 511, Subpart A, Construction Plans, 511.08, and Iowa Amendments; NEM Part 541, Drafting and Drawing; NEM Part 542, Specifications; NEM Part 543, Materials).
 - a. Drawings, which include but are not limited to the following elements:
 - i. Location map and plan view of the site, including the township, range, section, scale, and north arrow.
 - ii. The bench mark elevation and description.
 - iii. A topographic map of the area.
 - iv. Location of potential sources of pollution.
 - v. Other items required in the current Conservation Practice Standard.
 - vi. A note on the drawings stating that the contractor is responsible for calling Iowa One Call at 1-800-292-8989 at least 48 hours prior to beginning any excavation work.
 - vii. A note on the drawings stating that if a cultural resource is identified during construction, work will stop immediately and the NRCS Archeologist will be notified.
 - viii. The Iowa Engineering Job Class is shown on the drawings (NEM Part 501, Form IA-ENG-6).
 - ix. Completed title block showing dates and the names of the designer and checker, and the signature of the person approving the design.
 - x. Acceptance signature by client.
 - b. Construction and material specifications, including but not limited to:
 - i. Other specifications required for the project.
 - ii. IA-5 Pollution Control Construction Specification or its equivalent is required for all jobs.
4. Design Report (NEM Part 511, Subpart B Design Documentation, 511.11) with detail appropriate to the complexity of the job. If multiple practices are part of a single job, a combined design report may be acceptable. The design report shall include, but not be limited to the following:
 - a. Summary of project objectives and references.
 - b. Site assessment.
 - c. Summary of design documentation from item 2 listed above, including assumptions and analyses performed, estimated quantities and material selections, construction methods, and design alternatives that were considered.
 - d. List of facilitating practices.
 - e. List of required permits to be obtained by the client.
 - f. Bill of Materials and Itemized Cost Estimate.
 - g. Bid Sheet to be used by the client, if appropriate.

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5. Inspection Plan (NEM Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.33) appropriate to the complexity of the job, which describes the following:
 - a. Items of work and materials requiring inspection.
 - b. Type and frequency of testing, if needed.
 - c. The as-built documentation required.
 - d. Quality Control responsibilities.
 - e. Quality Assurance responsibilities.
6. Operation and maintenance plan meeting the requirements of the current Conservation Practice Standard, including but not limited to:
 - a. Critical elements of operation and maintenance.
 - b. Frequency of inspection.
 - c. Normal operating range or conditions.
 - d. Typical problems that may occur.
 - e. Minor maintenance procedures.
 - f. Contact information for entities that can provide assistance with problems.
7. Certification that the design meets practice standard criteria and complies with applicable laws and regulations (NEM Part 505, Subpart A, 505.03), or is approved by an employee with the appropriate delegated engineering job approval authority (NEM Part 501, Subpart A).
8. Design modifications during installation as required.
9. Service provider shall submit design deliverables to the appropriate NRCS field office for a deliverables and/or functional review before proceeding to the pre-installation conference and installation phase of the project.

INSTALLATION

Deliverables

1. Pre-installation conference with service provider, NRCS staff, client and contractor.
 - a. Review plans and specifications
 - b. Review NRCS utility safety policy. (NEM Part 503 – Safety, Subpart A – Engineering Activities Affecting Utilities, Section 503.00 through 503.22 and Iowa amendments).
 - c. Review roles and responsibilities of all parties involved in the project installation.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. At least one site visit during construction to provide sufficient inspection to ensure project is installed according to plans and specifications by NRCS staff with appropriate job approval authority (for NRCS designed practices) or by a service provider or a designated representative under the direct supervision of the service provider.
5. Installation inspection documented in the case file assistance notes or in a job diary to include:
 - a. Dates and record of inspections made, testing completed, instruction provided to the contractor, etc., to document compliance with standards and specifications.
 - b. Actual materials used.
6. Facilitate and implement required design modifications with client, original designer, and permitting and funding agencies. Design modifications required during installation are properly approved and documented.

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CHECK OUT

Deliverables

1. Survey for Checkout conducted and recorded as for the design survey.
 - a. Location of the practice components installed
2. Service provider shall conduct a final site inspection to technically certify that the completed construction meets the plans, specifications, and practice standard.
3. As-built documentation.
 - a. Extent of practice units applied.
 - b. Drawings with changes from the original construction plans clearly shown.
 - c. Final Quantities.
4. Certification that the practice has been installed in accordance with NRCS practice standard criteria and specifications and complies with applicable laws and regulations, or is approved by an employee with the appropriate delegated engineering job approval authority (see Design Deliverable Item 7).
5. Progress reporting.

REFERENCES

- Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard, Short Term Storage of Animal Waste and By Products, (318)
- NRCS Agricultural Waste Management Field Handbook (AWMFH).
- NRCS National Engineering Manual (NEM)
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook

STATE CONTACT

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