

STATEMENT OF WORK
Waste Transfer (634)
Wyoming

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

Items that are marked **(TSP or Non-NRCS Engineer)** need to be completed only if design is provided by a TSP or Non-NRCS Engineer. Items that are marked **(NRCS Employee)** need to be completed only if design is provided by an NRCS Employee. All other items are required by all designers.

DESIGN

Deliverables and Documentation Requirements:

1. Design survey
 - a. Profile along centerline of conveyance.
 - b. Detailed topography at structure locations.
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.
 - a. Practice purpose(s) as identified in the conservation plan.
 - b. List of required permits to be obtained by the client.
 - c. Impacts on adjacent properties and structures.
 - d. Verify with the Field Office conservation planner that all concerns under the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA) have been adequately addressed.
 - e. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
 - f. List of facilitating practices
 - g. 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)
 - ii. Hydraulics
 - iii. Structural and Mechanical Components
 - iv. Environmental Considerations (e.g. air quality, biosecurity).
 - v. Safety Considerations (NEM Part 503- Safety, Subpart A, 503.06 through 503.12).
3. 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 including but not limited to:
 - a. Location map with legal description.
 - b. Plan view of layout of the system.
 - c. Profile of conveyance system.
 - d. Cross sections or details of all structures or appurtenances
 - e. Table of quantities
 - f. Cooperator's signature of review and acceptance to construct the practice according to the plans and specifications.
4. 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).
5. Operation and Maintenance Plan
6. Certifications that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Part 505 – Non-NRCS Engineering Services, Subpart A – Introduction, - 505.0 and 505.3). **(TSP or Non-NRCS Engineer)**
7. Engineering job classification is shown and proper engineering approval is obtained. **(NRCS Employee)**
8. Design modifications during installation as required.

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INSTALLATION

Deliverables and Documentation Requirements

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.
 - a. Centerline alignment.
 - b. Location of structures or appurtenances
 - c. Verify with the Field Office conservation planner that the location of the staked practice is within the original scope of the practice and is still in compliance with the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA).
4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used.
 - 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 meet design and permit requirements.

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 505 – Non-NRCS Engineering Services, Subpart A – Introduction, 505.3). **(TSP or Non-NRCS Engineer)**
3. Statement of compliance signed by NRCS personnel with applicable job approval authority that the work meets the plans and specifications. **(NRCS Employee)**
4. Progress reporting.

Note: *State-Specific Deliverables may be added as appropriate.*

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard Waste Transfer - 634.
- NRCS Agricultural Waste Management Field Handbook (AWMFH)
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- Midwest Plan Service Livestock Waste Facilities Handbook (pumps)
- World Bank Group. Fruit and vegetable processing. July 1998
[http://www.ifc.org/ifcext/enviro.nsf/AttachmentsByTitle/gui_fruitveg_WB/\\$FILE/fruitandvg_PPAH.pdf](http://www.ifc.org/ifcext/enviro.nsf/AttachmentsByTitle/gui_fruitveg_WB/$FILE/fruitandvg_PPAH.pdf)
- Enachescu Dauthy, Mircea. Fruit and vegetable processing. FAO AGRICULTURAL SERVICES BULLETIN No.119. Food and Agriculture Organization of the United Nations Rome, 1995.
<http://www.fao.org/docrep/v5030e/v5030e00.htm>
- Ohio State University. Ohio Livestock Manure Management Guide. Chapter 10—Pathogens and Pharmaceuticals. Bulletin 604-06
- Miner, R. July 1995. Reducing the Risk of Groundwater Contamination from Livestock Manure Management. Fact Sheet. EM 8597. Oregon State University. <http://extension.oregonstate.edu/catalog/pdf/em/em8597.pdf>