

NATURAL RESOURCES CONSERVATION SERVICE

DOCUMENTATION REQUIREMENTS

WATERING FACILITY (614)

FIELD DATA

The following is a list of the minimum field data to be collected:

1. System plan sketch to show locations of proposed troughs or tanks, and location of water sources;
2. Numbers of livestock or wildlife to be served;
3. Elevations of tanks or troughs in relation to water sources;
4. Evaluation of water supply and level of farmer management;
5. Evaluation of soils and surrounding topography at sites of tanks or troughs to determine drainage measures and treatment of area around them.

DESIGN DATA

The following is a list of the minimum required design data:

1. Purposes of the watering facility and the overall capacity required to meet all intended purposes;
2. Statement of the sources of water and adequacy of the water supply to meet the needs;
3. Locations and capacities of tanks or troughs based on water needs;
4. Size and type of tanks or troughs to be used;
5. Design of appurtenant devices as needed (such as overflow facilities when automatic water level controls are not used, freeze proof troughs, valve shields or covers to protect from livestock, etc);
6. Design of surface treatment surrounding the tanks or troughs when needed to minimize erosion or muddy conditions;

7. Construction drawings shall include the following as a minimum:

- Plan view including location map and all system components;
- Size, type, and location of tanks or troughs;
- Details of appurtenant devices;
- Size and type of stabilization treatment around the watering facilities, if needed;
- If a pipeline is associated with the system, refer to the documentation requirements for Pipeline (516);
- Lime, fertilizer, and seeding requirements according to practice standard 342, Critical Area Planting (may be included as a specification instead);
- Quantities of materials;
- Critical Inspection Items;
- Utilities statement and Excavation Safety statement.

8. Construction and material specifications;

9. Written Operation and Maintenance (O&M) plan.

PRE-CONSTRUCTION & INSPECTION

1. Preconstruction Meeting With Landowner And Contractor. This is a meeting to explain the drawings and specifications, discuss requirements for construction and material certifications, level of staking needed, safety issues, utilities notification, and other topics. Document the following as a minimum:

- Time and date of meeting;
- Names of attendees;
- Items discussed and decisions made.

2. Layout And Staking Of Practices. Document:

- Survey notes showing layout of the practices, including date and who performed the staking;

- If the contractor provides staking, then document any reviews made to ensure proper placement of the practice.
3. Utilities Notification. Can use form ENG-5 and ENG-6 to assist in tracking utility notifications (See NEM §MA503). Document:
 - Initial discussion with landowner about his or her responsibility to notify utilities;
 - Information from landowner about existence and location of known utilities;
 - Assurances that utility company has been notified, including staking by utilities.
 4. Inspection During Construction. Document:
 - All inspections made during construction, including all those identified on the drawings as critical inspection items;
 - Include visual inspections and conclusions, surveys, tests and test results;
 - Discussions with landowner and contractor;
 - Photographs taken before and during construction;
 - Approval by designer of any changes from the drawings or specifications before implementation of the change.

CONSTRUCTION CHECK

The following is a list of the minimum required data to support the as-built drawing:

1. Locations of water facilities;
2. Number and sizes of tanks or troughs;
3. Name of manufacturer, product name, and material of tank or trough, and all appurtenances installed;
4. Installation of material to stabilize areas surrounding watering facilities. Materials documentation to certify quality as stated on drawings and specifications;
5. Adequacy of seeding and fencing as applicable. Refer to documentation requirements for associated practices (Critical Area Planting (342) and Fence (382)) for construction check data required;

CERTIFICATION

The following is a list of what must be certified by a person with the required approval authority for the installed practice:

1. Final quantities and documentation for quantity changes;
2. Statement on the as-built drawings that the installed practices meet or exceed the requirements of the NRCS practice standards;
3. Record in the case file the number of watering facilities installed;
4. Report in PRMS, as applicable;
5. See documentation requirements of associated practices to determine certification requirements, such as Pipeline (516) and Spring Development (574).