

# WATERING FACILITY DESIGN AND CONSTRUCTION CHECKLISTS

## DESIGN

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.
2. List of required permits to be obtained by the client.
3. Impacts on adjacent properties and structures.
4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
5. List of facilitating practices
6. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
  - a. Water requirements based on the kind and number of animals using the facility and the duration of use
  - b. Source of water and required flow rate
  - c. Dimensions, type and capacity of facility
  - d. Kind, size and quantity of pipes and fittings
7. Construction Specifications
  - a. Include construction specifications for all practice standards associated with the facility, including piping, heavy use area treatment and critical area treatment
  - b. Material specifications for all materials to be used
8. Engineering Drawings
  - a. Location sketch showing
    - Water source
    - Facility location
    - Pipeline location
    - Scale
    - Legend
    - Road and Utilities
    - Existing Structures
    - Property Lines
  - b. Typical sections showing (as needed for special installations)
    - Plumbing details at the facility
    - Heavy use area protection details
9. Operation and Maintenance Plan
10. Design modifications during installation as required.

## CONSTRUCTION CHECK

1. As-Built documentation.
  - a. Dimensions and elevations of facility and appurtenances as installed
  - b. Materials used in construction
  - c. Area and depth of heavy use area material installed
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03(c) (1)).