

## Instruction for Use of Construction Specification 634, Manure Transfer System

### Applicability

Construction Specification 634 is applicable to the installation of all types of waste transfer systems utilizing a pipe or chute. This includes, but is not limited to, systems utilizing gravity, pumps, rams, chains, augers, or conveyors and combinations thereof. It applies to designs produced by NRCS engineers, as well as standard plans and specifications prepared by others and concurred in by NRCS.

Loading or unloading pads.

It is not applicable, in general, to push-offs, scraper alleys, or irrigation systems. It does not cover handling systems within a building such as alley scrapers, gutter cleaners, or gravity gutters.

### Items to be included in Section 9 and/or Drawings

- a. Material requirements, including but not limited to:
  - 1) Pipe size, type, grade or quality
  - 2) Concrete strength
  - 3) Reinforcing steel grade, if >40 ksi
  - 4) Metal type and grade
  - 5) Wood species and grade, or strength
  - 6) Fastener requirements
  - 7) Type finish or coating
  - 8) Masonry or precast type and reinforcing
  - 9) Drainage materials
  - 10) Bedding materials

- b. Applicable dimensions, work limits, excavation/fill limits, finished grades and elevations
- c. Pump or direct transfer requirements for:
  - 1) Horsepower
  - 2) Capacity and operating head
  - 3) Operation
  - 4) Valves
  - 5) Serviceable life
  - 6) Solids capacity of waste water pumps
- d. Structural limitations and restrictions such as:
  - 1) Backfill requirements
  - 2) Allowable equipment surcharge
  - 3) Drainage requirements
  - 4) Bedding, equipment for structures and pipelines
- e. Safety components (e.g. grates, steps, gates, guardrails, warning signs)
- f. Temporary and permanent vegetative requirements
- g. Reference to other practice specifications (e.g. 606, 313, 381, 430DD) etc., if applicable

The above items apply to designs which include standard drawings and specifications for commercial products, as well as in-house designs.