



INSTRUCTIONS FOR USE OF SPECIFICATION

Pond (378)

_____ Land Owner _____ Service Center

_____ County _____ Date

1. APPLICABILITY

Construction Specification WV378 is applicable to installation of earthen ponds, either excavated and/or with an embankment. It is not applicable to Dams (WV402), Waste Storage Ponds (WV425), or Sediment Basins (WV350).

2. ITEMS TO BE INCLUDED AND/OR DRAWINGS

Items to be included in the "ITEMS OF WORK AND CONSTRUCTION DETAILS" for applicable NRCS national construction specifications or on the construction drawings (Note that several NRCS national construction specifications may be needed based on the type of structure used to impound water.

- a. Classification of the dam (must be low hazard to be designed under Code 378).
- b. Overall plan view, with location of pond and appurtenances.
- c. Work limits.
- d. Ingress and egress routes.
- e. Profiles and cross sections of the excavated pond or embankment, and all structures with grade and critical elevations shown.
- f. Structural details of pipes, concrete, seepage control, and other structures.
- g. Type, quantity, and quality of materials used for structures. Include NEH 642 Construction Specification 32, Structure Concrete and Construction Specification 51, Corrugated Metal Pipe, as appropriate.
- h. Location of staging areas for materials, excavations, topsoil, etc.
- i. Location of spoil areas.
- j. Earthfill requirements. Location of borrow areas, if needed.
- k. Excavation requirements.
- l. Disposition of unsuitable excavated material.
- m. Vegetative requirements.
- n. Location of utilities and notification requirements.
- o. Material requirements, including but not limited to:
 - i. pipe sizes, type, strength
 - ii. trash and anti-vortex type and configuration
 - iii. sand for drainage diaphragm
 - iv. concrete strength such as 3000 PSI
 - v. cement type, such as I or IA conforming to ASTM 150
 - vi. reinforcing steel grade
 - vii. pipe support
 - viii. special concrete admixture requirements
 - ix. special curing compound requirement

- x. specific type of preformed expansion joint filler, if required
 - xi. specific type of waterstop material, if required metal type and grade wood species and grade, or strength
 - xii. geotextile type
 - xiii. gravel
 - xiv. field stone
 - xv. pressure treated wood requirements, if other than ASTM 1760 (CCA)
 - xvi. fastener requirements, including type finish or coating and extra corrosion protection if pressure treated wood is other than CCA
 - xvii. masonry type and reinforcing
 - xviii. drainage and bedding materials
 - xix. gate type and fence materials
- p. Applicable dimensions, work limits, excavation/fill limits, finished grades, elevations, fill, core materials
- q. Structural limitations and restrictions on, compaction, spoil location(s) and foundation and drainage requirements.
- r. Safety components
- i. fences
 - ii. steps
 - iii. gate valve access and subsurface outlet details, etc.
 - iv. erosion and sediment control
 - v. temporary and permanent vegetative requirements
 - vi. reference to other practice specifications (e.g. 382, 606, 620, 634), if applicable.