


PIT CONSTRUCTION SPECIFICATIONS

PART I - GENERAL

- 1.01 INTRODUCTION Unless modified, deleted, replaced, or otherwise changed, the latest published addition of the following documents shall be the accepted standard for materials and/or procedures for the construction of meter pits:
1. Northern Kentucky Water District's Standard Drawings
  2. Natural Resources & Environmental Protection Cabinet, Division of Water
  3. Kentucky Public Service Commission Regulations
  4. American Water Works Association Standards (AWWA)
- If a conflict exists between referenced sources, the more restrictive requirements shall prevail. The District shall provide interpretation as requested.
- 1.02 REQUIREMENTS FOR METER PIT INSTALLATION The following are guidelines for meter pit installations:
- A. Meter pit will not be required to be installed if the following conditions can be met:
- Firelines-1. An approved back flow prevention device shall be installed as the first device inside the building on the fire line before any taps or branches -and-
2. The fire department connection shall be located downstream of the approved back flow prevention device -and-
  3. The domestic water service is 2" or smaller which will be installed per Standard Drawings #107, 107-A, or 108.
- Domestic Services-- 2" or smaller domestic water services shall be installed by the District per Standard Drawings #107, 107-A, or 108.
- B. Meter pits shall be required to be installed if one or more of the following conditions exists:
- Firelines-- The fire department connection is required by the authority having jurisdiction to be installed near the public right-of-way. An approved double check assembly shall be required to be installed per Standard Drawing #204, 206, or 207R.
- Domestic Services-- 3" or larger domestic water services shall be installed per Standard Drawings #205R, 207R, or 208.
- 1.03 CONTRACTORS RESPONSIBILITY All work performed on any meter pit and/or appurtenances that are owned or anticipated to be owned by the District shall be completed under the direction of the District adhering to an acceptable plan approved by the District. A minimum of 24 hours notice shall be given to the District by the contractor prior to the start of work. If the interruption of service to any customer of the District is necessary, the Contractor shall make arrangements to provide such shutdown and notify District customers at the direction of the District Inspector. One set of District approved plans shall be on the job site during construction. There shall be no deviation from the approved plans without written approval from the District.

- 1.04 EXISTING PITS Any changes, modifications, or alterations made to an existing pit structure, piping, etc., it shall be brought up to current standards. Compliance subject to the discretion of the Water District.
- 1.05 PLANS Plans are approved subject to the conditions of compliance with all applicable laws, rules, regulations and standards. The proposed project may be constructed only in accordance with the approved plans. Plans submitted to the District for approval shall have a Ky. Professional Engineer or Certified Fire Suppression Technician stamp and signature. Two sets of plans should be submitted for preliminary review and four sets for final review.
- 1.06 DESCRIPTION In general the following specifications are minimum requirements as pit design. Construction may be dictated by location, soil conditions, ground water, topography, etc. Additional provisions may be required upon submission for approval.
- 1.07 ACCESSIBILITY OF PITS Accessibility for maintenance and testing of all meter pits shall be provided. A means of access for maintenance vehicles shall be constructed of a hard, all weather surface at least 10' wide and designed to support the heaviest vehicle, within 15' of the pit.
- 1.08 WATER MAINS ON PRIVATE PROPERTY Meter pits and appurtenances installed on private property outside of normal conditions which are going to be maintained by the Water District shall have proper documentation provided for all easement areas. See appropriate sections of District's Standards Specifications & Drawings for the Installation of Water Mains for procedures.
- 1.09 HIGH PRESSURE AREAS Additional requirements may be necessary for high pressure areas (110 psi static pressure or higher) as determined by the District.
- 1.10 MAINTENANCE PERIOD The Owner shall be responsible for the maintenance of the installed meter pit and appurtenances to District Standards for a period of not less than one (1) year from the date the meter pit is placed in service by the District. Meter pits will be placed in service when the meter pit is 100% completed to District Standards.
- 1.11 MINIMUM REQUIREMENTS Floor slab shall be 6" thick concrete sloping at 1/8 inch per foot to drain or sump location. Dimensions of slab shall be 4 inches larger all around than outside pit walls. Pit shall be drained by a 4" drain or larger as required, leading to grade or a storm sewer. When a drain is not practical an electric operated sump pump shall be used.
- Walls shall be 8" thick concrete. Top slab shall be 8" thick reinforced concrete with #5 bars @6" O.C. maximum, spanning in short direction and #5 bars @18" O.C. maximum, in long direction. Two (2) #5 bars, two (2) feet long are to be placed at 45 degree to each corner of slab openings. Reinforcing shall be placed 1-1/2" clear from the bottom of the slab or inside wall faces. Additional reinforcement may be required.
- Pit openings shall have lids as indicated or as approved in traffic areas of a type operable by a single person. Removable aluminum ladders shall be furnished in all pits.
- 1.12 METER PIT DIMENSIONS Minimum inside pit dimensions shall be: Height - 5 feet; Width - 5 feet; Length - 6 feet.

REVISION	BY	DATE
N. KY. WATER DISTRICT MATERIAL SPECIFICATIONS FOR PIT CONSTRUCTION		
DRAWN BY: SAR		
APPROVED: 		
DATE: 2/1/2021		
STANDARD DRAWING NO: 201		