FUNDAMENTAL REQUIREMENTS FOR CONVENTIONAL SEPTIC SYSTEMS

The applicant or contractor shall call when all components of the septic system are installed and complete except for the final cover of soil over the system. The sewer line from the house to the septic tank does not have to be installed or connected unless this is a repair on an existing system (see form titled, “Environmental Unit Will Be Inspecting the Building Sewer Line for this Project” for requirements). Sewer line (if present- 2012 International Building Code):

- Installed with adequate fall to allow flow of sewage into tank
- 2-way cleanout properly installed
- If there is new plumbing between tank and building tracer wire per adopted Building Code is required.

Septic tank (AACR18-9-A314):

- Provide an inlet T for tanks without built-in inlet baffle.
- Must meet ADEQ design specifications, in sound condition, appropriate size with effluent filter installed on outlet side
- Proper installation per manufacturer’s installation requirements (proper sealing around the inlet and outlet pipes is recommended at inspection)
- Tank lids must be within 6” of final grade. If risers are used they must be affixed to the tank to form a watertight seal and securely connected together if more than one riser is used.
- Plastic tank lids shall have no more than 2 screws in each tank lid to ease access to the interior of the tank.
- All septic tanks must be leak tested and the water must remain in the tank until after the final inspection has been conducted.

Outlet line (AAC R18-9-A312(B)(1)):

- At least 5’ separation (undisturbed soil) from tank to leach lines
- 4” fall between tank and disposal field is recommended

Distribution between multiple leach lines (if present-AAC R18-9-E302(C)):

- D-box approved and in sound condition, level and properly installed with the inlet (highest) hole receiving effluent from the tank.
- Plastic distribution boxes must be anchored in concrete. (AAC R18-9-A313A)
- 2’ of solid pipe and undisturbed soil is required out of the d-box before perforated pipe or chamber trench begins. (AAC R18-9-312(A)(2)
- When using D-Box, leach lines must be of equal length

Disposal trench/bed (AAC R18-9-E302(C)):

- Trenches installed to specifications indicated on approved permit, sufficient cover and effective depth, not exceeding maximum permitted depth, minimum separation between lines
- A minimum of one properly installed inspection pipe in each trench. Inspection Pipes must extend from the bottom of the trench to the top of grade. Inspection pipes should be constructed of 3 or 4” perforated pipe to the top of the aggregate (rock) or chamber, solid pipe to grade with a cap on the top. We strongly encourage inspection pipes to be left in place for the homeowner’s use to monitor the system. AAC R 18-9-A301(D)(1)
- Trench separation is measured from trench edge to trench edge and 2X rock depth.
- Aggregate Trenches:
  - Aggregate (rock) must be reasonably clean and of proper size and hardness (3/4” to 2 1/2” in size) AAC R18-9-101(1).
  - Perforated pipe must be installed correctly (holes at 5 and 7 o’clock; SDR 35 grade pipe if more than 2” of cover over the trench)
  - The perforated pipe must have 2” of aggregate (rock) cover and geo-textile or landscape filter fabric placed over it.

General considerations:

- All ADEQ-mandated setbacks must be clearly met (AAC R18-9-A312(C)
- Discovery of soils significantly different than indicated on Site Investigation, higher than expected bedrock, groundwater, etc may result in disapproval of the system (AAC R 18-9-A310)
- Minor deviations from the approved plot layout (such as a change in tank orientation or slight changes in tank or trench location) may not require as-built plans and will be noted by the inspector. The inspector will let the installer or contractor know if an as-built is required. (AAC R 18-9-A301(D)(1)(e)
- Significant changes should be approved by YCDS in advance and shown on an accurate as-built plot plan which must be submitted to the office or left on site when the final inspection is requested.
- Any other situation which is found to be in violation of ADEQ and YCDS-EU codes and rules may constitute grounds for disapproval
- A Request for Discharge Authorization must be left on site; faxed to our office at 928-771-3443 Prescott or 928-639-8153 in Cottonwood or dropped by our offices in Prescott or Cottonwood prior to the issuance of the Discharge Authorization (Approval to Operate).

***THE YCDS-EU CONSTRUCTION CARD SHOULD BE VISIBLE AT THE SITE ***