

GRANT COUNTY HEALTH DISTRICT

SEPTIC SYSTEM INSTALLATION CHECKLIST USING GRAVEL WITH GRAVITY DESIGN

FROM DWELLING TO TANK

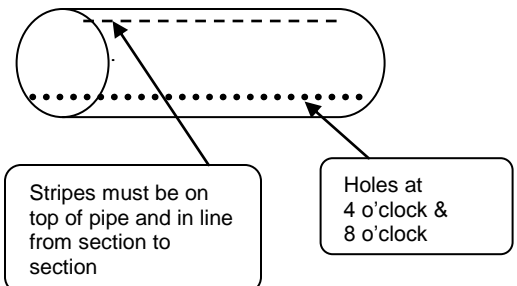
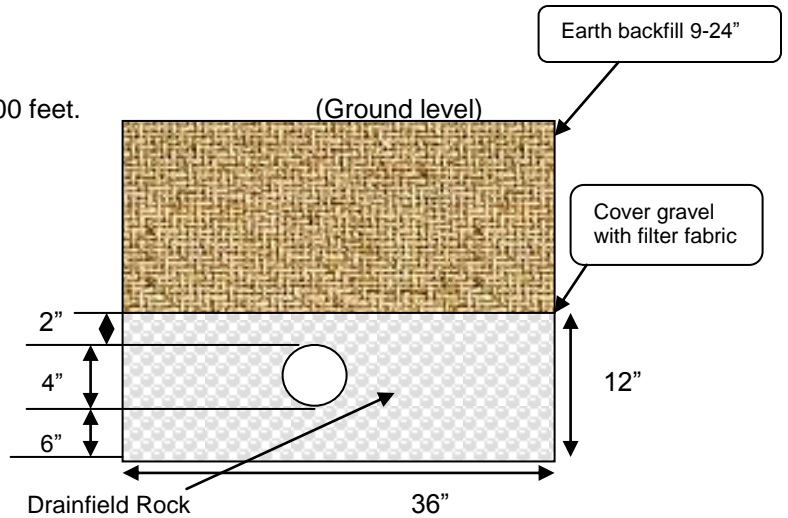
1. Proper pipe - (ASTM 3033, 3034, or Schedule 40) No thin wall pipe in system except perforated sections.
2. Grade: 1/8" to 1/4" drop per foot.
3. No 90 degree turns – use 2--45degree turns, with cleanout encouraged
4. Sealed connections to tank.
5. Cleanout within 24" of house. ±
6. Piping shall be bedded with soil or sand. Bedding shall be 4' below and 6' above pipe.

SEPTIC TANK

1. Minimum of 5 feet from building - encourage 10 feet.
2. Risers to grade to access for cleaning.
3. Two compartments - two-thirds in first compartment.
4. Proper tees or baffles - minimum of 6" below surface on inlets, extension below surface on outlets, 40% of liquid depth. Effluent filter required in outlet baffle.
5. Outlet approximately 3" lower than inlet.
6. Top of inlet and outlet baffles or tees extend above scum level.
7. Minimum of 1" air space between top of baffle or tee and the underside of tank top.
8. Tank must be on the DOH approved list. No leaks or cracks in tank.

DRAINFIELD

1. Fall from septic tank to drainfield 2" minimum.
2. Minimum of 5 feet solid line between the tank and perforated pipe (encourage 10 feet).
3. Sealed connection to the tank.
4. Distribution box or tee placed level.
5. Required amount of square footage of trench bottom. (As stated on permit)
6. Minimum of two laterals - equal length in each. Closed ends are recommended in equal distribution systems.
7. Maximum length of each line - 100 feet.
8. Maximum trench width - 3 feet.
9. Grade: Maintain equal elevation throughout with a tolerance of plus or minus on inch per 100 feet.
10. 4.5 feet minimum between trenches.
11. Maximum trench depth - 36".
12. Gravel – 3/4" to 2-1/2" diameter, washed.
13. 6" of gravel under pipe, minimum.
14. 2" of gravel over pipe, minimum (Total 12" minimum in trench.)
15. Pipe installed as shown at lower right.
16. Not installed in fill area.
17. Filter fabric over top of upper gravel.
18. Pipe material:  
From septic tank to drainfield:  
ASTM 3033, 3034, or Schedule 40  
In drainfield:  
ASTM 2729 (minimum strength)
19. Cap ends of pipe with proper caps.



SETBACKS

FROM WATER LINES  
BUILDINGS  
PRIVATE WELLS  
LAKES AND STREAMS  
PROPERTY LINES &  
EASEMENTS

DISTANCE

TANK AND FIELD - 10'  
TANK - 5' AND FIELD - 10'  
TANK - 50' AND FIELD - 100'  
TANK - 50' AND FIELD - 100'  
TANK - 5' AND FIELD - 5'