

STATE OF NEVADA
DIVISION OF PUBLIC AND BEHAVIORAL HEALTH
COMMUNITY SERVICES
ENVIRONMENTAL HEALTH SECTION
www.dpbh.nv.gov



INFORMATION FOR INDIVIDUAL SEWAGE DISPOSAL SYSTEM

Regulations can be found at the Nevada Law Library: <http://www.leg.state.nv.us/nac/nac-444.html>

Use this Individual Sewage Disposal System development guide to help you submit a complete application. We will review your proposed development application to ensure that it meets requirements of State of Nevada, Nevada Administrative Code (NAC) 444. Incomplete submittals may result in delay of approval and additional fees.

INDIVIDUAL SEWAGE DISPOSAL SYSTEM FEE SCHEDULE	
1. For a permit to construct an individual sewage disposal system for a single-family dwelling, including a review of the plan for the system and an initial inspection of the system	\$498
2. For a permit to construct a residential system that utilizes an alternative treatment or disposal system design, including a review of the plan for the system and an initial inspection of the system	\$498
3. For a review of the plan for a primary treatment unit	\$498
4. For the resubmission of or revision to a plan described in subsection 1, 2 or 3 or tank only replacements	\$124
5. For a reinspection of an individual sewage disposal system	\$100

Construction Permits

Construction permits are valid for 1 year from the date of issue. A permit is considered void 12 months after the date of issuance if the proposed construction, alteration, or extension of the individual sewage disposal system is not completed within that period. A fee of \$332 is required to extend a permit to construct an individual sewage disposal system for a 1-year period after the expiration date of the permit.

Occupancy Permits

The individual sewage disposal system must be inspected, and all additional requirements met (as-built plans and well logs submitted, etc.) before an occupancy permit will be issued. Please be aware this document is required to connect to utilities.

Application and Design Plan Requirements

All application submittal packages **must include** the following:

- Application filled out and signed
- Application fee [Make check or money order payable to "Division of Public and Behavioral Health"]
- One (1) copy of design plan; with the following information [NAC 444.784 (3)]
 - (a) The title and date of the plan and the signature of the owner or his representative.
 - (b) A map of the area in which the system will be located that shows the location of the roads and streets.
 - (c) The location and distance to well and sewage systems on surrounding lots. If the lots are vacant, indicate.
 - (d) The direction of north clearly indicated.
 - (e) The distance within 500 feet to any watercourse indicated, including, without limitation, any pond, lagoon or stream. If there are no watercourses, the plot plan must so indicate.
 - (f) The location of each percolation test hole and boring test hole.
 - (g) The location and depth of each proposed and/or actual well located within 200' of the proposed individual sewage disposal system. A well log must be included for any well located less than 150' from the absorption field.
 - (h) Each component of the system, which must be properly marked and located at specified distances.
 - (i) The distance to city sewers. If there are none, the plot plan must so indicate.
 - (j) The distance of each well and soil absorption system to the property line.
 - (k) The scale to which the plan is drawn, such as 1 inch = 30 feet, 40 feet, 50 feet, 60 feet, etc.
 - (l) The number of bedrooms in the single-family dwelling.
 - (m) The capacity of the septic tank.
 - (n) The maximum slope across the absorption system area.
 - (o) The dimensions of the lot.

- (p) The depth, length, width and spacing of any absorption trenches.
- (q) The location of the water supply lines, building sewer lines and other underground utilities.
- (r) The location of the structures, paved areas, driveways, trees and patios.
- (s) The location of the source of water to be used by the system, including, without limitation, a well or other source approved by the administrative authority.
- (t) The location of the reserve absorption area, which must be of a size not less than the size of the primary absorption area.

- Local building department approval (if required)
- Percolation Test Data
- Soil Profile

Capacity of Septic Tank Serving a Single-Family Dwelling [NAC 444.8306]

Number of Bedrooms	Minimum Liquid Capacity of Tank (in Gallons)
3 or less	1,000
4	1,200
5 or 6	1,500

Individual Sewage Disposal System Set Back Distances [

Minimum Horizontal Distance, required from	Building Sewer Drain	Septic Tank	Disposal Field (Shallow)
Building or Structure	---	8'	8'
Property Lines	10'	10	10
Water Supply Wells (Sealed to 50 feet)	50'	100	100
Water Supply Wells (NOT Sealed to 50 feet)	50'	100	150
Public Water Supply Wells	50'	150	150*
Streams or Watercourses	50'	100	100*
Drainage Channels	25'	25	25
Large Trees or Shrubs	---	10	10
Disposal Fields	---	5	---
Community Main Water Line	10'	10	25
Individual Water Service Line	10'	10	25
Dry Wells	---	6	20

**The required distance between a well and the components of an individual sewage disposal system may be increased by the health authority depending on the depth to the water table, soil profile and other site characteristics.*

Absorption Trench Sizing and Detail

This chart may be used for 1,000 gallon tanks ONLY.

Perc Rate	Feet of Gravel Under Leachline				Leach Line Calculations
	1 Ft	2 Ft	3 Ft	4 Ft	
10	316'	158'	106'	80'	Example: A 3 bedroom home with a 1,000 gallon tank a percolation rate of 30 and an 2 feet of gravel under the leach line. $\frac{(\text{TankSize}) \times (\sqrt{\text{perc rate}/5})}{2 \times \text{FtGravelUnderLine}^*}$ $\frac{(1000) \times (\sqrt{30/5})}{2 \times 2}$ = 273.86 ft of Leach Line Round this number up to 274. This system would best be served by 3 lines, which are 92' feet long. (4 Ft Max for calc)*
15	387'	194'	129'	97'	
20	447'	224'	149'	---	
25	500'	250'	167'	---	
30	(547')	273'	182'	---	
35	(591')	296'	197'	---	
40	(632')	316'	210'	---	
45	(670')	335'	224'	---	
50	(707')	353'	235'	---	
55	(741')	370'	247'	---	
60	(775')	387'	258'	---	

Note: No one perforated line may exceed 100' in length; lines must be equal in length. Distribution boxes are required when more than 100' of line is needed.