version 3.2

Pressure Bed Design

contact Troy Johnson at
www.SepticResource.com
for questions or comments

Property Owner: Todd Jellum **Date:** 10/14/2019

Site Address: 41902 251st PL. McGregor MN 55760 **PID:** 14-1-071900

Comments:

instructions: [ ] = req'd input [ ] = input or default [ ] = calculated field *** = installer info

1) 3 bedroom Type I Residential System

2) 450 GPD design flow

3) No Garbage disposal or pumped to septic

Install Jacobson 1650 Compartment tank with Effluent Filter and alarm

4) *** 1120 Gallon septic tank (minimum) Tank options: none

5) 0.78 GPD/ft^2 Soil Loading Rate (must match soil boring log) 577 ft^2 bed req'd, or 577 ft^2 LUG minimum

6) *** 16.0 ft desired bed width, (25' maximum) leads to a 36.1 ft bed length

7 *** 3.0 ft lateral spacing 3.0 ft perforation spacing (maximum 3 for both)

end feed manifold connection

8) *** 5 laterals 34.1 feet long 12.0 perfs / lateral 60 perfs total

(1/2 perf means the first perf starts at the middle feed manifold)

9) *** 7/32 inch perfs at 1 feet residual head gives 0.56 gpm flow rate per perforation

(If bed has > 1' of cover, increase residual head for cleanout req's)

for this perf size & spacing, & pipe size on line 12, max perfs/lateral = 14, line #8 must be less --> OK

10) 6 doses per day (4 minimum)

11) 75 gallons per dose (treatment volume)

12) 1.25 inch diameter laterals (or smaller) will meet "5x pipe volume"

*** 1.25 inch diameter laterals (or smaller) must be used to meet "4x pipe volume" requirement

1.50 inch diameter laterals (or smaller) will meet "3x pipe volume"

13) *** 20 feet of 2.0 inch supply line leads to 3 gallons of drainback volume ("top feed" to control the drainback)

14) 78 gallons TOTAL pump out volume (treatment + drainback)

15) 10 feet vertical lift from pump to dispersal area, leads to a

16) *** 34 GPM @ 16 feet of head, Pump requirement

(>50 gpm may require additional 3-6' head allowance for discharge assy)