

## Mound Design Notes - Aitkin county

Property Owner: Tom Ernsting ( Sue Radke )

Date: 6/10/19

Site Address: 36374 Nature Ave. Aitkin MN 56431

PID: 15-0-040200

Comments: **Mound design may not follow Aitkin co. Auto fill form for mound design.**

- 1 This is a type I mound for an existing 3 bedroom House. Existing deep well location is North of House.
- 2 Existing Gravity mound is failing because of soil separation, Abandon existing mound.  
Existing septic tank will be abandon, pump, collapse, fill, or remove.
- 3 Proposed mound area slope is 10% under rockbed, downslope is 5%.6%  
SE corner of new mound will be place in area of old building foundation approx. ( 2ft. X 10' ).
- 4 Bench Mark Elevation is a nail on a tree near South of mound area.
- 5 Install Jacobson 1650 Compartment tank for gravity flow from house, install cleanout at Jct. to existing pipe.
- 6 Elevation contour of rock bed upslope edge is 98'.  
The area size of the rock bed is 10' x 38' . Absorption area is 38' x 39.6'.  
Sand absorption area is 8.6 ft. up slope + 10 ft. rockbed + 21 downslope = approx. 39.6 ft. wide sand base.  
Berms are 11ft. Upslope, 26ft. Down slope, 10ft. Rock bed = approx. 47ft. Wide. End Berms are 20 ft. wide.  
Overall mound size is approx. 47' wide x 78' long and approx. 4' high.
- 7 The bench mark is the nail on the tree near mound area, BM = Elv. 100'.  
Installer to double check bench mark. Installer should confirm bench mark and sand height Elv. with inspector.  
Installer should record bench mark Elv. and sand height on installation inspection form.
- 8 The top of the washed sand and bottom of rock bed is Elv. 100'.  
It is important that the soils do not get compacted, and that clean washed sand is used.
- 9 The Jacobson 1650 compartment tank will be gravity flow from dwelling. Install the pump for 7 demand doses per day. approx. 73 gallons per dose, 5.8 inches of tank level. Install alarm at 3 inches from pump on level.  
Install all manholes, inspection pipes and clean-outs to grade or above, insulate top of tank.
- 10 Install Effluent filter on septic tank outlet, install electric alarm on filter.  
Install a 2" supply pipe from tank to end manifold in rock bed, install so pipe drains back to tank.  
Install 1.5" laterals with 9" of rock under them. Install clean-outs at far end of laterals.  
**Drill 1/4" holes for Perf sizing, 36" on centers.**  
Install inspection pipe to bottom of rock bed, secure in rock bed and raise to above final grade.
- 11 Installer will pressure test and squirt height laterals when finished.

Designed to Aitkin Co. and MPCA recommendations and requirements.

  
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Designer Signature

Brummer Septic LLC.  
Design Company

L-1347  
License#