

23) 0.50 gpd/ft<sup>2</sup> Absorption area Soil Loading Rate, which gives a mound ratio of 2.4 (minimum)  
 (this must match the soil boring log) desired mound ratio 2.4

24) 10 percent site slope (0-20% range) 6 (% downslope site slope, if different than upslope)

25) 12 inches, or 1.0 ft. to Redox or other limiting condition (need at least 12" to be a Type I)  
 Treatment zone contains 0 inches of 0% soil credit, and 0 inches of 50% soil credit. Giving a:

26) 24 inch, or 2.0 ft. Sand Lift Mound **CRITICAL FOR FUTURE CERTIFICATIONS!!!**

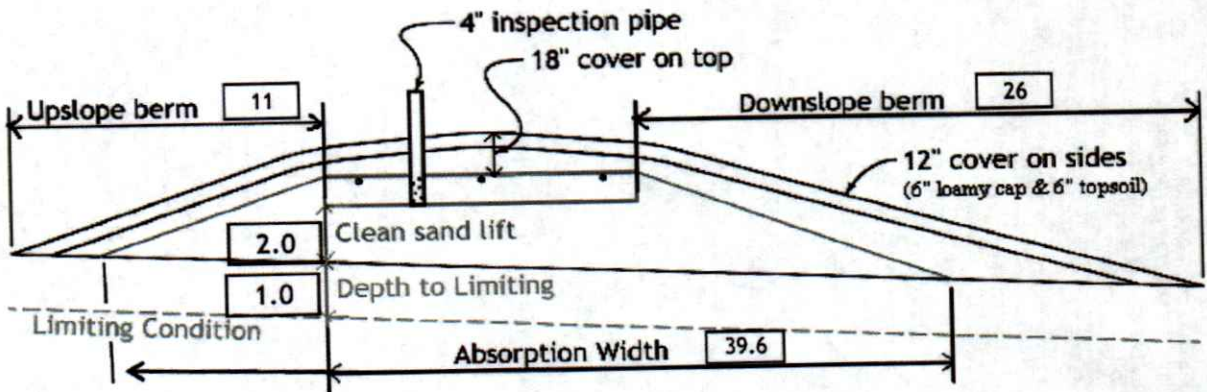
27) 24.0 ft. base absorption width (with sand beyond rockbed as follows):  
 39.6 greater of: absorption width OR sand slope

28) 0.0 ft. upslope and sideslope sand upslope 8.6  
 14.0 ft. Downslope sand down slope 21.0

Individual slope ratios give BERM widths (topsoil beyond rockbed) of:

29) 4:1 upslope ratio 11 ft. upslope berm  
 30) 4:1 sideslope 20 ft. sideslope berms  
 31) 4:1 downslope 26 ft. downslope berm

32) Overall Dimensions: 10.0 ft. wide by 37.5 ft. long Rock bed  
 47 ft. wide by 78 ft. long Mound footprint



**Note:**  
 For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.  
 For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

33) Rock Bed: 10.0 ft. by 37.5 ft. by 9 inches under pipe, plus 20% gives 17 yd<sup>3</sup> or \*1.4= 24 ton

34) Mound Sand: (note: volume is based on 3:1/4:1 slope from top of rockbed, Exchange sand for loamy cap if desired)  
 33.1 up + 108.3 downslope + 23.7 ends + 34.7 under rock = 240 yd<sup>3</sup> or \*1.4= 336 ton plus 20%

35) Loamy Cap: 43 ft. by 74 ft. 6" deep, plus 20% gives 71 yd<sup>3</sup> or \*1.4= 99 ton

36) Topsoil: 47 ft. by 78 ft. 6" deep, plus 20% gives 81 yd<sup>3</sup> or \*1.4= 113 ton

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Designer Signature: Jeff Brummer Company: Brummer Septic LLC. License#: L-1347 Date: 6/10/2019