

Bureau of Environmental Health

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SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: _____

Subdivision: Simpson & Denault Properties Lot: 45

209 Initial system: Application rate: 1.2 Effective area beginning depth: 3.5' Bottom maximum depth: 8'
 210 1st Replacement: Application rate: 0.8 Effective area beginning depth: 2' Bottom maximum depth: 8'
 211 2nd Replacement: Application rate: 0.8 Effective area beginning depth: 1.5' Bottom maximum depth: 5'

(208)

Design Flow = 150 gallons per day per bedroom

Design flow + application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage + trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

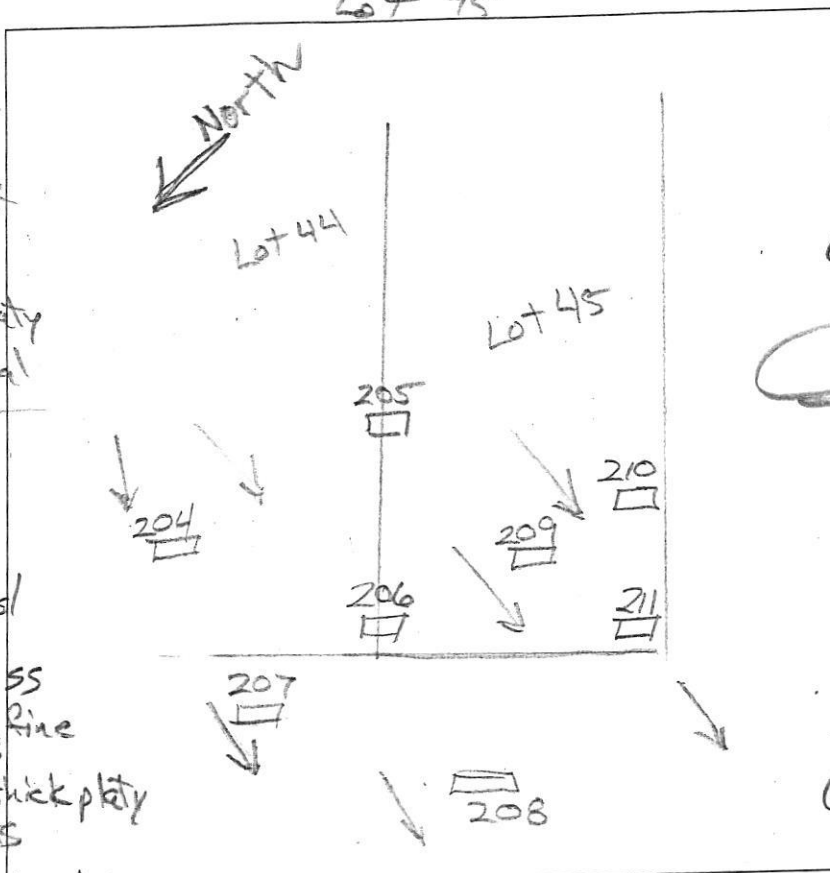
Field-run 1' elev. contours required for lower SDA on OSOs Plan if Invert for 2nd Replacement system is less than 2'.

Approved: R. Bricker

Date: 2/13/2018

Lot 45

AP



207

0.6 dk red-brn sl, 2 f sbk
 0.6 yel-red & red-yel ls, thick platy near vertical
 few mica
 7' water

208

0.2 dk red-brn sl
 0.2 red-brn f, ss
 2 f sbk, many fine roots
 0.6 red-brn sl, thick platy
 2' few fine roots
 2' yel-red & red-yel ls

211

0.4 dk brn L, 2 f sbk, ss
 0.4 red-brn L
 2 f sbk, ss
 few mica
 0.8 yel-red sl
 thick platy
 1.5 yel-red & red-yel ls, thick platy
 few mica concentrations
 9' water

210

0.5 dk brn L, 2 f sbk
 brn sl, 1 msbk
 common mica
 yel-red sl
 1 csbk many mica

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
3/3/16	207	3' 7"	12:02	12:08	12:14	6	P
3/3/16	208	4' 8"	12:13	12:39	1:09	7:30	F
3/3/16	211	4' 9"	12:40	12:46	12:53	7	P
3/3/16	210	3' 8" / 13"	12:56	1:02	1:10	8	P
3/3/16	209	5' 14"	1:20	1:23	1:26	3	P
3/3/16	206	6' 12"	1:28	1:32	1:37	5	P

210

2' red-yel & yel-red
 & yel-brn ls, thick platy
 13' water

209

0.5 dk brn L, few mica
 2 f sbk
 0.5 yel-red L
 2 msbk
 1.5 yel-red L
 3 msbk
 2.1 yel-red sl
 thick platy
 many mica

35

0.5 yel-red & brn ls, thick platy
 many mica
 14 saturated ls
 thick platy
 water

3' yel-red chls
 thick platy
 4.5' yel-red chls
 thick platy
 c sd (brn-yel) & c 2p (lt grey) around rock fragments
 8' lt. grey saprolite gritty.
 * >50% consolidated (rock)
 9' water

REMARKS _____
 SANITARIAN R. Bricker BACKHOE Hot fields OTHERS _____
 TEST HOLES USED IN SDA S Collins AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SAW _____