, and i	tutorui i to
Division of Environmental Health	
On-site Wastewater Section	

SHEEL. Property ID: Lot #:

File #:

Code:

### SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner:

Applicant:

Address:

Proposed Facility: Ly BEORCOM Worn E

Design Flow (.1949): 480 4

Date Evaluated: 3 30 00 Property Size:

Location of Site:

Water Supply:

[ ] Public

[ ] Individual

Property Recorded:

[] Spring

[]Other

**Evaluation Method:** Type of Wastewater: Auger Boring Sewage

[] Cut [ ] Industrial Process

[] Mixed

P R O F I 1940 L Landscape E Position/ # Slope%		SOIL MORPHOLOGY		PRUFIEE FACTORS				PRUFILE FACTORS				
	Horizon Depth (IN.)	.1941 Structure/ Texture	,1941 Consistence Mineralogy	1942 Soil Wetness/1	1943 Soil 1	1956 Saprot	1944 Restr	Profile Class				
a Flo	0-16	SSK CL	FR 53) WP	251712013"		Oldow.	TIOIZ.4	US				
		31.6	<u></u>									
	-			12 3								
	6-20	SBK C	F1 5/P	7.570 1/1021"		Jan Janes		US/PS(F124)				
	0-12		E0 -41-00					314				
	11,22			3-Y				US/PS(FUL)				
	10	1 1	F1 51 P	1.5 10 1118				. 1				
	0-6"	SEKSCZ	FR SSINP		- 0							
	12-40	53KC	Fi slr	7,5-12 160 27"				P5 .4				
		14		7				/				
	0-16"	98K3CL	on solw									
	10-36"	SBK C	Fisle	CR 2 @ 18"				NS /85 FILL				
				-				. 1				
-		May a						3 4 833				
1		W-51										
	-	4				-		5   1				
-	3							1				
1		8										
110	0											
	1940 Landscape Position/ Slope%	1940   Landscape Horizon Position/ Depth Slope% (IN.)  0-16  0-6 6-30	SOIL I  1940 Landscape Position/ Slope% (IN.) Texture  C-16 SSK CL  C-6 SSK CL  C-70 SSK CL  D-6 SSK CL	SOIL MORPHOLOGY  1941  1941  Landscape Position/ Slope%  (IN.)  Texture  Mineralogy  CTC  SSK CL  FR 53 NR  CTC  SBK CL  FR 53 NR  CTC  SBK CL  FR 53 NR  CTC  SBK CL  FR 55 NR  CTC  SBK SCL  FR 55 NR  CTC  SBK SCL  FR 55 NR  CTC  CTC  CTC  CTC  SBK SCL  FR 55 NR  CTC  CTC  CTC  CTC  SBK SCL  FR 55 NR  CTC  CTC  CTC  CTC  SBK SCL  FR 55 NR  CTC  CTC  CTC  CTC  CTC  CTC  CTC  C	SOIL MORPHOLOGY  1941  1942  1942  1942  1943  Position/ Slope%  (IN.) Texture  Consistence Wetness/7  Mineralogy  Color  CHC SSK CL FR 50) JR 251 712 @13  O-6 SSK SCL FR 50/ 7.572 710 27  O-6 SSK SCL FR 55/NP  12-40 53K CL FR 55/NP  12-40 53K CL FR 55/NP  D-6 SK SCL FR 55/NP  12-40 53K CL FR 55/NP  D-6 SK SCL FR 55/NP	SOIL MORPHOLOGY  1941  PROFILE FACTO  1942  1942  Soil: 1943  Position/ Slope%  (IN.)  Texture  Consistence Mineralogy  Color  Depth (IN.)  Texture  Mineralogy  Color  Depth (IN.)  Soil: 1943  Soil: 1943  Wetness/*  Color  Depth (IN.)  Soil: 1943  Wetness/*  Color  Depth (IN.)  Soil: 1943  Wetness/*  Color  Depth (IN.)  Soil: 1943  Soil: 1943  Wetness/*  Color  Depth (IN.)  Soil: 1943  Wetness/*  Soil: 1943  Soil: 1943  Wetness/*  Soil: 1943  Soil: 1944  Color  Depth (IN.)  Soil: 1943  Soil: 1944  Soil: 1945  Soil: 1943  Wetness/*  Depth (IN.)  Soil: 1943  Soil: 1943  Netness/*  Soil: 1943  Soil: 1944  Soil: 1945  Soil: 1943  Popin (IN.)  Soil: 1943  Netness/*  Soil: 1943  Netness/*  Soil: 1943  Netness/*  Soil: 1943  Netness/*  Soil: 1944  Soil: 1945  Soil: 1943  Netness/*  Soil: 1943  Netness/*  Soil: 1944  Soil: 1945  Netness/*  Soil: 1944  Soil: 1945  Netness/*  Soil: 1943  Netness/*  Soil: 1948  Netness/*  Soil: 1943  Netness/*  Soil: 1948  Netness/*  Soil: 1948  Netness/*  Soil: 1948  Netness/*  Soil: 1948  Netne	SOIL MORPHOLOGY  1941  PROFILE FACTORS  1942  Landscape Horizon Position/ Slope%  Solit 1945  Soil 1946  Soil	SOIL MORPHOLOGY  1941  PROFILE FACTORS  1942  Landscape Position/ Depth Structure/ Consistence Wetness/ Soil: 1945 Slope% (IN.) Texture Mineralogy Color Depth (IN.) Class Horiz  CTIC SSK CL FR 50) WR 251 712013  CTIC SSK CL FR 50 MR  6-30 SSK CL FR 55 MR  Depth (IN.) SSK CL FR 55 MR  Depth (IN.) Texture Mineralogy Color Depth (IN.) Class Restriction of the color of t				

Description	Initial System	Repair System		
Available Space (.1945)	<b>/</b>	✓ .		
System Type(s)	FILL	FILL		
Site LTAR	. )	.1		

Other Factors (.1946):

Site Classification (.1948): ₽5

Evaluated By:

Others Present: BM

FILE	#	

COMMENTS:	

					997
LANDSCAPE POSITIONS	GROUP	TEXTURES	.1955 LTAR	CONSISTENCE MOIST	<u>WET</u>
R-RIDGE S-SHOULDER SLOPE L-LINEAR SLOPE	I	S-SAND LS-LOAMY SAND	1.2 - 0.8	VFR-VERY FRIABLE FR-FRIABLE	NS-NON-STICKY SS-SLIGHTLY STICKY
FS-FOOT SLOPE N-NOSE SLOPE H-HEAD SLOPE	п	SL-SANDY LOAM L-LOAM	0.8 - 0.6	FI-FIRM VFI-VERY FIRM EFI-EXTREMELY FIRM	S-STICKY VS-VERY STICKY NP-NON-PLASTIC
CC-CONCLAVE SLOPE CV-CONVEX SLOPE T-TERRACE FP-FLOOD PLAN	Ш	SI-SILT- SIL-SILT LOAM CL-CLAY LOAM SCL-SANDY CLAY LOAM SICL-SILTY CLAY LOAM	0.6 – 0.3		SP-SLIGHTLY STICKY P-PLASTIC VP-VERY PLASTIC
	IV	SIC-SILTY CLAY	0.4 - 0.1		

STRUCTURE SG-SINGLE GRAIN M-MASSIVE **CR-CRUMB** GR-GRANULAR SBK-SUBANGULAR BLOCKY ABK-ANGULAR BLOCKY PL-PLATY PR-PRISMATIC

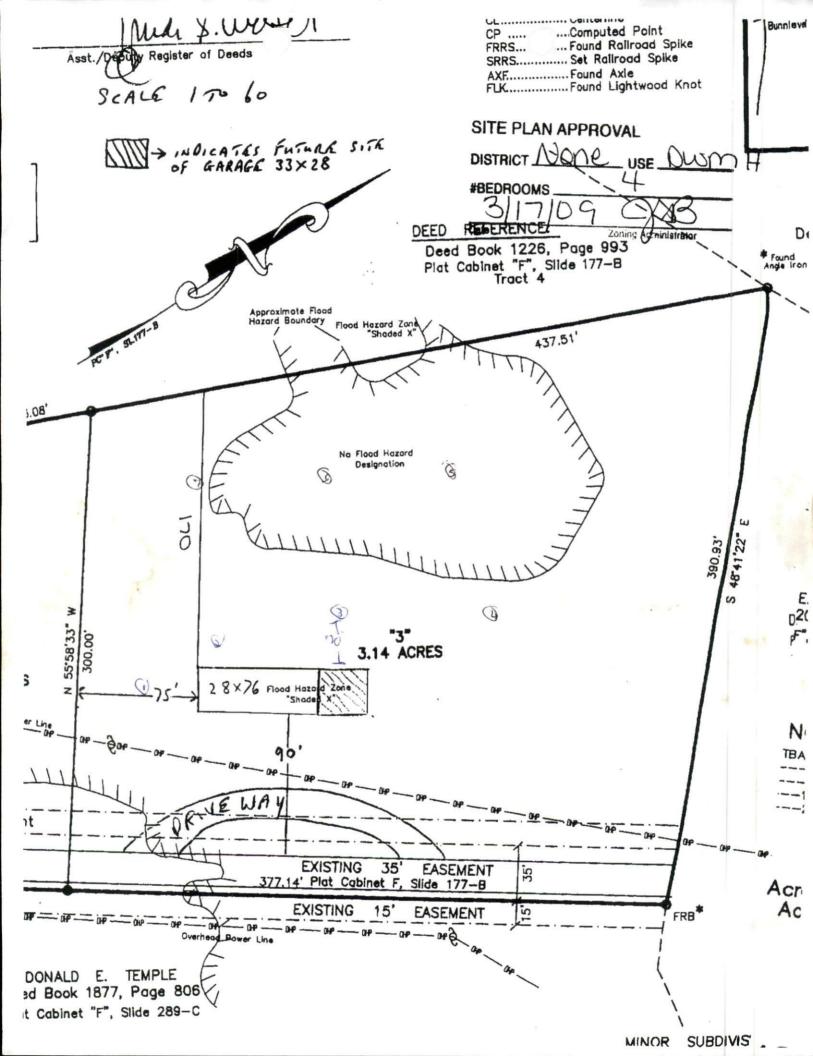
MINERALOGY SLIGHTLY EXPANSIVE

SC-SANDY CLAY

EXPANSIVE

C-CLAY

Show profile locations and other site features (dimensions, reference or benchmark, and North).



# Guideline For Design and Installation of Fill Systems with Conventional Trenches

# I. Trench and Fill Specifications

	•				
IV	_	- Soil Texture Group	180	_ft.	- Length of Fill
)	_ gpd/sq. ft.	- Acceptance Rate	104	_ft.	- Width of Fill
460	gpd	- Sewage Flow	11232	_sq. f	t Total Fill Area
4800	_sq. ft	- Trench Bottom	12	_in.	- Depth of Sand
3	_ft.	- Trench Width		_cu. ;	yd Volume of Sand
160	_ft.	- Total Trench Length	6	_in.	- Depth of Topsoil
10	_	- Number of Trenches		_cu. y	d Volume of Topsoi
160	ft.	- Length of each Trench			

### II. Site Preparation

- Place flags at the 4 corners of the area to be filled designated on the improvement permit.
   Failure to place fill in the permitted area may result in the fill having to be moved or the permit revoked.
- Do not work when the site is wet. Working on soil when wet can destroy soil structure making the site unsuitable for a Construction Authorization.
- Remove all above ground vegetation and root mat from area to be filled without removing topsoil. Removal of soil can result in revocation of the permit.
- Disk the area to be filled to a depth of 6 inches to break up root mat.

### III. Placement Of Fill

- Add 3 to 4 inches of approved sand fill to area and disk again to thoroughly mix the original soil and the fill. Approved sand fill is a sand or loamy sand.
- Add more sand fill to achieve a uniform height of SD (see diagram) in the middle of the fill area.
- 3. The fill shall be tapered from the top edge of the fill to the ground surface 2 feet from the boundary of the fill area. The top edge of fill is located 5 feet from the proposed trenches.

- 4. Six (6) inches of finer textured fill shall be placed over the sand fill and extend to the boundary of the fill area. Finer texture is necessary to establish a vegetative cover which will prevent erosion of the fill. Fill used for cover shall be a sandy loam, loam, silt loam or sand clay loam texture. See CD dimension of diagram. Side slope shall be 1 to 4 except for site with Soil Texture Group 1 which can have a side slope of 1 to 3.
- Contact Health Department for inspection of fill before constructing trenches. A
   Construction Authorization must be obtained before proceeding.

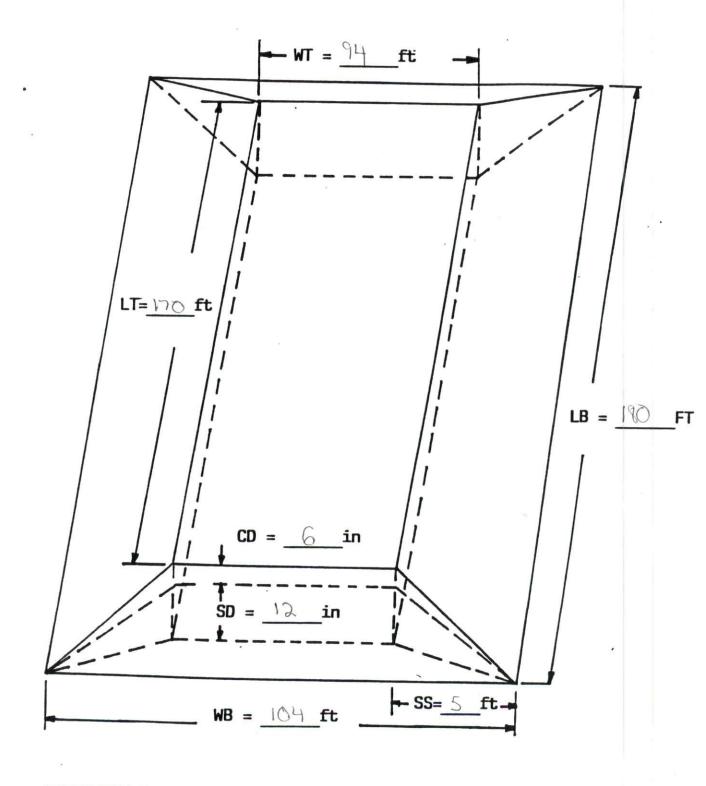
#### IV. Trench Construction

- 1. The outside edge of any trench shall be 5 feet from the top of the side slope of the fill.
- 2. This system is designed with 10 trenches which are 160 ft. long and 3 ft. wide. Trenches must have a spacing of 9 ft. on centers.
- 3. Trench bottoms shall be no deeper than 18 inches below finished grade of the fill.
- Trench bottoms shall be constructed level.
- 5. Distribution boxes shall be located 5 feet from the top edge of the fill.
- 6. Call the Health Department for inspection after the trenches are finished.

### V. Landscaping

- The fill must be shaped to shed surface water and shall be stabilized with grass or other suitable cover to prevent erosion.
- Vegetation must be maintained after established. Grass must be mowed.
- Additional fill beyond what has already been specified may be necessary to cover and landscape around the septic tank.
- 4. Call the Health Department for inspection after landscaping is complete. The Operation Permit allowing use of the system is issued at this time.

## DIMENSIONS OF FILL SYSTEM



### **DEFINITIONS**

WT - width of top

LT - length of top

WB - width of bottom

LB - length of bottom

SS - side slope

SD - sand depth

CD - cover depth

#### Calculation of Fill Volume

### Total volume of fill (TVF)

$$TVF = [(LT + LB)/2 \times (WT + WB)/2] \times TFD$$

(DIVIDE BY 27 CU. FT. TO OBTAIN CU. YDS.)

= 962 CU. YDS.

### Total volume of sand (TVS)

TVS = [(LT + LB - 4)/2 X (WT + WB - 4)/2 ] X SD  
= [(
$$\frac{170}{346}$$
 FT. +  $\frac{180}{346}$  FT. - 4)/2 X ( $\frac{94}{546}$  FT. +  $\frac{104}{346}$  FT. - 4)/2] X \_\_\_\_\_\_ FT.

= 1678) CU. FT. 173  $\sim$  97  $\sim$  (DIVIDE BY 27 CU. FT. TO OBTAIN CU. YDS.)

= 622 CU. YDS.

### Total volume of cover (TVC)

= 340 CU. YD.

### Key to abreviations:

LT = length of top TFD = total fill depth

LB = length of bottom = SD + CD

WT = width of top SD = sand depth

WB = width of bottom CD = cover depth