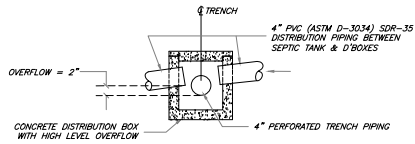


TRENCH	PIPE INV.
#1	463.5'
#2	462.8'
#3	461.9'

LEACHING FIELD SECTION
SCALE: 1" = 4'



DISTRIBUTION BOX SECTION
SCALE: 1" = 1'

- LEGEND**
- STONEMALL
 - - - EXISTING ELEVATION CONTOURS (USGS)
 - - - PROPOSED ELEVATION CONTOURS
 - PERCOLATION TEST HOLE
 - SOIL INSPECTION PIT
 - S - SILT FENCE EROSION BARRIER
 - UTILITY POLE
 - - - WETLAND BOUNDARY
 - - - WATERCOURSE

SYSTEM INSTALLATION NOTES

- THE SEPTIC SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL HEALTH CODE REGULATIONS.
- INSTALL SILT FENCE EROSION BARRIERS PRIOR TO THE START OF CONSTRUCTION.
- NOTIFY THE ENGINEER AND HEALTH DEPARTMENT 48 HOURS PRIOR TO THE FINAL SYSTEM INSPECTION (PRIOR TO BACKFILLING).
- THE ENGINEER WILL PREPARE THE SEPTIC SYSTEM "AS-BUILT" PLAN.
- SEED AND MULCH THE LEACHING FIELD AREA AFTER FINAL GRADING.

SOIL INSPECTIONS & PERCOLATION TEST RESULTS

Raymond & Christine Frankel property
143 Macedonia Road (Rt. 341)
Kent, Connecticut
Testing Conducted By: Brian E. Neff, P.E.
Test Date: April 28, 2019

SOIL INSPECTION PITY NO. 1
0' - 4" Dark brown topsoil
4" - 24" Shows fine sandy loam without gravel
10" - 38" Shows fine & medium sand without gravel
28" - 32" Gray silty fine sand (compact)

No ledge observed
Mottling observed at 18"
No granular seepage observed
Roots observed at 60"

SOIL INSPECTION PITY NO. 2
0' - 4" Dark brown topsoil
4" - 24" Shows fine sandy loam without gravel
24" - 38" Gray & brown fine sand w/ coarse R & brown gravel
18" - 38" Gray silty fine sand without gravel (compact)

No ledge observed
Mottling observed at 18"
Granular seepage observed at 60"
Roots observed at 48"

SOIL INSPECTION PITY NO. 3
0' - 4" Dark brown topsoil
4" - 22" Shows fine sandy loam
28" - 38" Shows fine & medium sand w/ coarse R & brown gravel

No ledge observed
No mottling observed
No granular seepage observed
Roots observed at 50"

PERCOLATION TEST HOLE - A

Hole depth: 24" Penetration: 1 hour

DEPTH	TIME	Y/D
4.75"	10:08	noSI
10.875"	10:28	4.9
17.0"	10:38	5.8
14.5"	10:48	3.9
16.125"	10:58	6.1
17.625"	11:08	6.9
19.125"	11:18	6.7

Percolation rate: 5.7 minutes per inch

PERCOLATION TEST HOLE - B

Hole depth: 24" Penetration: 1 hour

DEPTH	TIME	Y/D
4.75"	10:20	noSI
7.5"	10:30	1.3
14.25"	10:40	3.1
17.75"	10:50	4.7
19.525"	11:00	5.9
21.275"	11:10	8.0
22.5"	11:20	-

Percolation rate: 8.9 minutes per inch

SYSTEM DESIGN DATA

- DWELLING DESIGN SIZE: (4) BEDROOMS
- NO PROPOSED 100 GALLON CAPACITY OR LARGER BATH TUBS
- NO PROPOSED KITCHEN SINK GARbage GRINDER
- HEALTH CODE REQUIRED MINIMUM EFFECTIVE LEACHING (BASED UPON 1.0 - 10.0 MINUTES PER INCH PERCOLATION RATE) AREA = 860 SQUARE FEET
- PRIMARY LEACHING FIELD AND RESERVE LEACHING FIELD CONSIST OF (3) STONE FILLED TRENCHES, 4 FEET WIDE BY 1 FOOT DEEP BY 75 FEET LONG, TOTALING 675 SQUARE FEET OF EFFECTIVE LEACHING AREA
- MINIMUM LEACHING SYSTEM SPREAD
HF = 18 (MOTTLING AT 38", 10.1 - 18.0% GRADIENT)
FF = 2.0 (6 BEDROOM DWELLING)
PF = 1.2 (8.1 - 10.0 MIN. PERC.)
MLSS = 10 x 2.0 x 1.2 = 43.2' < 75' TRENCHES
- THERE ARE NO WELLS OR SEPTIC SYSTEMS ON ADJACENT PROPERTY WHICH AFFECT THIS PLAN
- NO BURIED OIL TANKS ARE PROPOSED
- LOT SIZE: 6.24 ACRES
- TAX ASSESSOR MAP 3, BLOCK 3, LOT 28

PROPOSED PLAN
SCALE: 1" = 30'

WETLANDS AND WATERCOURSES WERE DELINEATED ON-SITE BY NUTMEG SOIL SERVICES
BOUNDARY DATA IS FROM MAP BY L.W. MARSH

SUBSURFACE SEWAGE DISPOSAL SYSTEM		
THE FRANKS RESIDENCE		
143 MACEDONIA ROAD (RT. 341)		
KENT, CONNECTICUT		
DATE: 8-15-09	BRIAN E. NEFF LICENSED ENGINEER 128 BACON ROAD ROXBURY, CT 06783 (860) 324-2240	DRAWN BY: B.E. NEFF DRAWING NUMBER: SHEET 1 OF 1