

SEPTIC SYSTEM INSTALLATION REQUIREMENTS

THE SEPTIC SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL HEALTH CODE REGULATIONS.

KEEP ALL VEHICLE TRAFFIC OFF OF LEACHING FIELD AREA PRIOR TO SEPTIC SYSTEM INSTALLATION TO PREVENT OVER-COMPACTION OF NATURAL SOILS.

CALL 1-800-922-4455 "CALL BEFORE YOU DIG" TO LOCATE ALL UNDERGROUND UTILITIES IN THE SEPTIC SYSTEM AREA.

NOTIFY THE ENGINEER AND THE HEALTH DEPARTMENT AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION.

STRIP OFF ORGANIC MATERIAL AND TOPSOIL FROM LEACHING FIELD AREA AND SCARIFY THE GROUND SURFACE PARALLEL TO CONTOURS WITH BACKHOE BUCKET TEETH PRIOR TO SPREADING SEPTIC FILL.

SEPTIC FILL MUST BE BANK-RUN SAND AND GRAVEL WHICH CONFORMS TO THE FOLLOWING SPECIFICATIONS REQUIRED BY STATE HEALTH CODE:

- 1) THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INCHES.
- 2) UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
- 3) THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
- 4) THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100%	100%
#10	70% - 100%	70% - 100%
#40	10% - 50%*	10% - 75%
#100	0% - 20%	0% - 5%
#200	0% - 5%	0% - 2.5%

*NOTE: PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

THE CONTRACTOR SHALL PROVIDE A CERTIFIED TESTING LAB SIEVE ANALYSIS OF THE SEPTIC FILL TO THE ENGINEER AND HEALTH DEPARTMENT.

PLACE SEPTIC FILL AT THE PERIMETER OF THE LEACHING FIELD AREA. SPREAD SEPTIC FILL IN 6" - 8" LIFTS WITH TRACKED EQUIPMENT.

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 HAY-MULCH THE LEACHING FIELD AREA AFTER FINAL GRADING.

SOIL INSPECTION & PERCOLATION TEST RESULTS

Holly Hill Farm, LLC property
87 Whittlesey Road
Washington, Connecticut

Testing Conducted By: Brian E. Neff, P.E.
Test Date: September 21, 2005

SOIL INSPECTION PIT: NO. 7

- 0" - 6" Dark brown topsoil
- 6" - 22" Orange brown fine sandy loam
- 22" - 64" Gray silty fine sand (compact)

No ledge observed
Mottling observed at 22"
No groundwater seepage observed
Roots observed to 26"

SOIL INSPECTION PIT: NO. 8

- 0" - 6" Dark brown topsoil
- 6" - 18" Orange brown fine sandy loam
- 18" - 54" Gray silty fine sand (compact)

No ledge observed
Mottling observed at 18"
No groundwater seepage observed
Roots observed to 30"

SOIL INSPECTION PIT: NO. 9

- 0" - 6" Dark brown topsoil
- 6" - 20" Orange brown fine sandy loam
- 20" - 52" Gray silty fine sand (compact)

No ledge observed
Mottling observed at 20"
No groundwater seepage observed
Roots observed to 28"

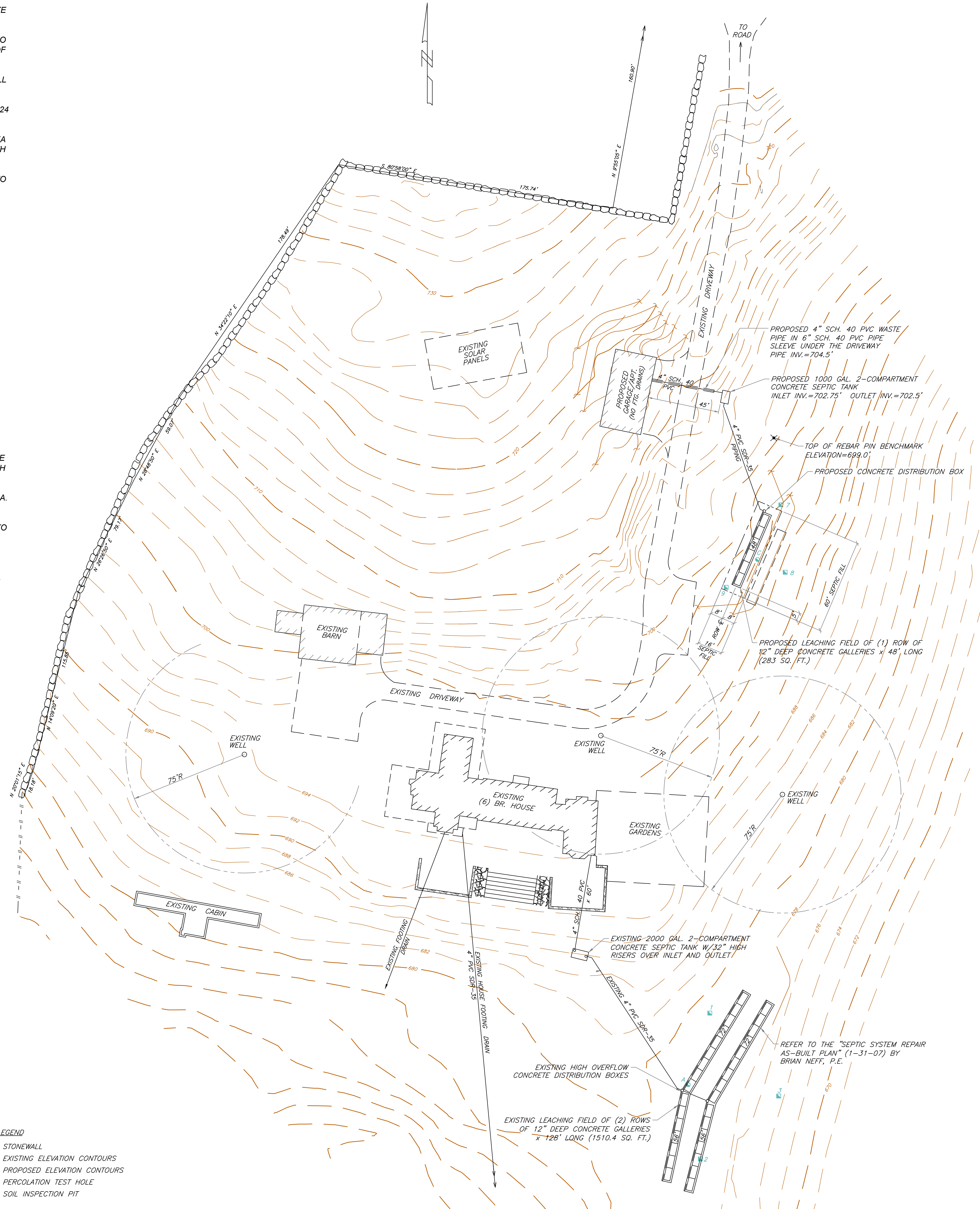
PERCOLATION TEST HOLE: C

Hole depth: 18" presoak = 1 hour

DEPTH	TIME	T/D
5.0"	1:05	refill
10.0"	1:15	2.0
13.0"	1:25	3.3
15.25"	1:35	4.4
16.5"	1:45	8.0
17.25"	1:55	13.3
dry	2:05	--

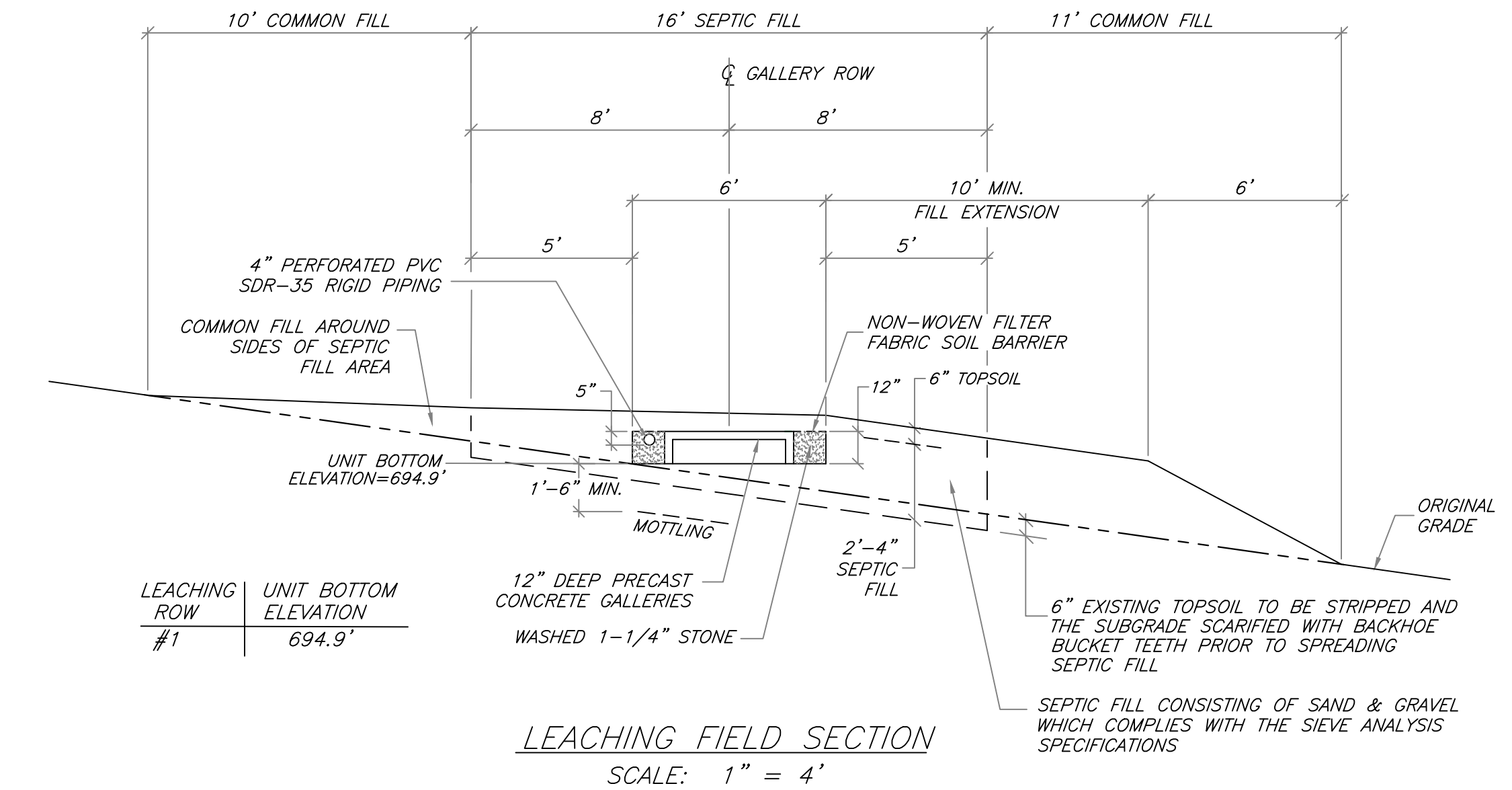
Percolation rate: 13.3 minutes per inch

- LEGEND**
- STONEWALL
 - EXISTING ELEVATION CONTOURS
 - PROPOSED ELEVATION CONTOURS
 - PERCOLATION TEST HOLE
 - SOIL INSPECTION PIT

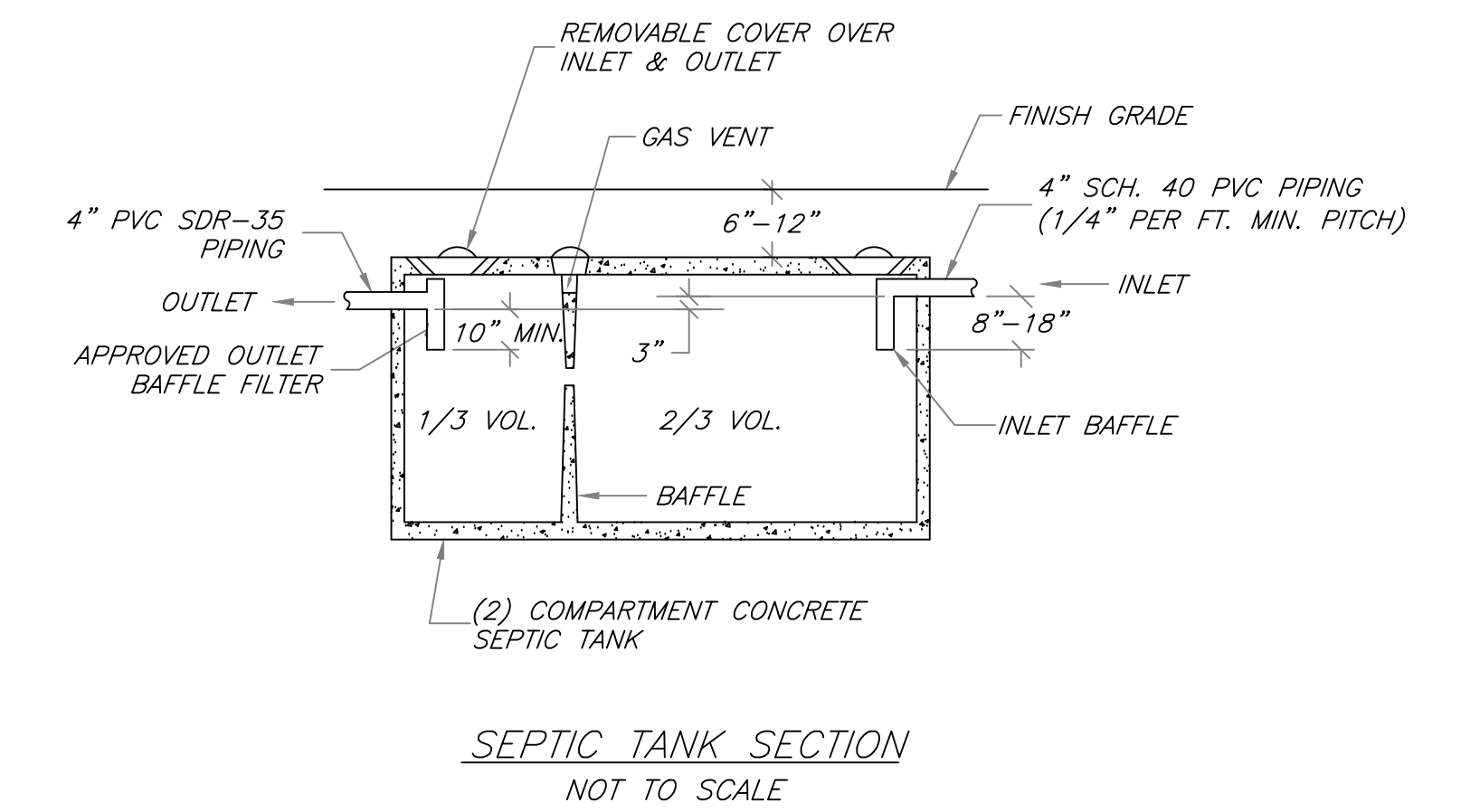


PROPOSED PLAN
SCALE: 1" = 30'

TOPOGRAPHIC DATA IS FROM MAP BY SAMUEL P. BERTACCINI, JR.



LEACHING FIELD SECTION
SCALE: 1" = 4'



SEPTIC TANK SECTION
NOT TO SCALE

SYSTEM DESIGN DATA

- DWELLING DESIGN SIZE: (1) BEDROOM
- NO PROPOSED 100 GALLON CAPACITY OR LARGER BATHTUBS
- NO PROPOSED KITCHEN SINK GARBAGE GRINDER
- HEALTH CODE REQUIRED MINIMUM EFFECTIVE LEACHING (BASED UPON 10.1-20.0 MINUTES PER INCH PERCOLATION RATE) AREA = 250 SQ. FT.
- PRIMARY LEACHING FIELD AND RESERVE LEACHING FIELD CONSIST OF (1) ROW OF 12" DEEP CONCRETE GALLERIES (RATED 5.9 SF/LF) BY 48 FT. LONG, TOTALLING 283.2 SQ. FT. OF EFFECTIVE LEACHING AREA
- MINIMUM LEACHING SYSTEM SPREAD
HF = 26 (MOTTLING AT 18", 15.0% GRADIENT)
FF = 0.5 (1 BEDROOM DWELLING)
PF = 1.25 (10.1-20.0 MIN./IN. PERC.)
MLSS = 26 x 0.5 x 1.25 = 16.25' < 48' ROW
- THERE ARE NO WELLS OR SEPTIC SYSTEMS ON ADJACENT PROPERTY WHICH AFFECT THIS PLAN
- NO BURIED OIL TANKS ARE PROPOSED
- LOT SIZE: 22.74± ACRES
- TAX ASSESSOR MAP 3, BLOCK 12, LOT 9
- PROPERTY OWNERS: HUGH R. FRATER
KIRSTEN J. FELDMAN

SEPTIC SYSTEM PLAN		
PROPOSED GARAGE/APARTMENT		
87 WHITTLESEY ROAD WASHINGTON, CONNECTICUT		
DATE: 4-2-2022	BRIAN E. NEFF LICENSED ENGINEER 128 BACON ROAD ROXBURY, CT 06783 (860) 354-2246	DRAWN BY: B.E. NEFF DRAWING NUMBER: SHEET 1 OF 1
REVISED:		