

TEST PIT, PERC TEST AND SOIL DATA

TEST PIT # 1 DATE: June 21, 2004 PERC TEST 12 MIN/INCH @ 30"

0"-10" 7.5YR 4/4 Loam - Friable

10"-26" 2.5Y 5/6 Sandy Clay Loam - Friable, Moist

26"-33" 2.5Y 6/4 Sandy Clay Loam - Friable, Moist w/ pockets of 5YR 4/6 Sandy Clay Loam

33"-84" 10YR 6/3 Clay Loam - Firm, Moist

SHWT: 33" OWT: N/D ROOTS: 18" LEDGE: N/D
NOTE: TEST PIT EVALUATED BY RICHARD S. BACON

SOIL TYPE: Woodbridge Very Stony Loam ID: WvR
SOURCE: Soil Conservation Service
VERIFIED BY:

GENERAL NOTES:

- 1) INSTALLATION SHALL BE PERFORMED BY A NH PERMITTED INSTALLER. CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL STATE AND LOCAL CODES AND APPLICABLE MANUFACTURERS SPECIFICATIONS.
- 2) ANY DISCREPANCIES IN EXISTING OR PROPOSED CONDITIONS SHOWN SHALL BE REPORTED TO THE DESIGNER BEFORE CONTINUING WITH INSTALLATION.
- 3) PIPES LEADING TO AND EXITING FROM SEPTIC TANKS SHALL BE SEALED WITH EITHER NON-SHRINK MORTAR, THICK PLASTIC CEMENT, OR OTHER SEALANT HAVING THE SAME OR BETTER DURABILITY AND SEALING CAPABILITY.
- 4) A ZABEL A1800-4X22-VT-B35 OR EQUAL RESIDENTIAL EFFLUENT FILTER IS REQUIRED. REFER TO MANUFACTURERS INSTALLATION AND MAINTENANCE INSTRUCTIONS.
- 5) GARBAGE DISPOSALS AND WATER SOFTENERS SHALL NOT BE USED WITH THIS SYSTEM; USE OF LOW-FLOW FIXTURES IS RECOMMENDED.
- 6) WHERE WATER LINES MUST CROSS A SEWER LINE, THE SEWER LINE SHALL BE 18" BELOW THE WATER LINE, OR THE WATER LINE SHALL BE ENCASED IN CONCRETE OR PIPE HAVING AN SDR OF 26 FOR A DISTANCE OF 10' EITHER SIDE OF THE SEWER LINE.
- 7) CONSTRUCTION APPROVALS SHALL EXPIRE FOUR YEARS FROM DATE OF ISSUE BY NHDES UNLESS OPERATIONAL APPROVAL IS GRANTED FOR THE SYSTEM.
- 8) PIPES UNDER AREAS NOT COVERED BY SNOW IN A YEAR OF AVERAGE SNOWFALL (I.E., DRIVEWAYS, WALKS) SHALL BE BURIED AT LEAST 4 FEET UNDERGROUND OR SHALL BE INSULATED.
- 9) THIS IS NOT A PROPERTY SURVEY. ALL PROPERTY LINES SHOULD BE VERIFIED PRIOR TO SYSTEM INSTALLATION.

**EFFLUENT DISPOSAL SYSTEM CALCULATIONS
ENVIRO-SEPTIC PIPE**

PERCOLATION RATE: 12 MIN/INCH
DESIGNED FOR 3 BEDROOMS

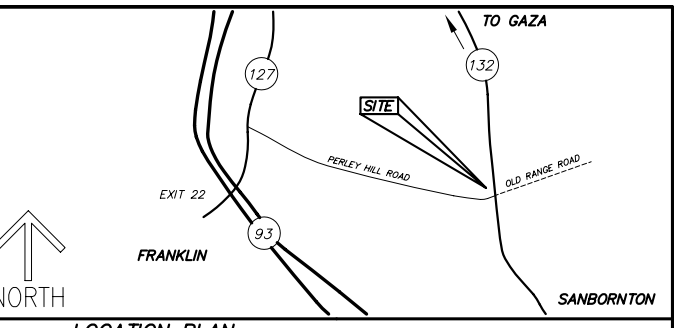
3 BEDROOMS x 150GPD/BEDROOM = 450 GPD
EFFLUENT DISPOSAL AREA REQUIRED = 900 SF
-40% CHAMBER REDUCTION, AREA REQUIRED = 540 SF
ENVIRO-SEPTIC TABLE A REQUIREMENT = 165 LF
180 LF PROVIDED - 540 SF PROVIDED

DESIGN INTENT

EXISTING HIGH CONTOUR ELEVATION: 901.50
THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT 902.75 ELEVATION. THERE IS/ARE 1.25 FOOT/FEET ABOVE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL SYSTEM.

DESIGN NOTES:

- 1) ENVIRO-SEPTIC LEACHING PIPES SHALL BE USED. UNITS ARE AVAILABLE FROM WASTE INC. IN CONCORD, NH. SIMPLE-SEPTIC OR GEO-FLOW PIPES SHALL NOT BE SUBSTITUTED.
- 2) INSTALLATIONS SHALL FOLLOW ENVIRO-SEPTIC DESIGN AND INSTALLATION MANUAL (2003 EDITION) AND THE ENVIRO-SEPTIC NEW HAMPSHIRE STATE ATTACHMENT.
- 3) NO WET AREAS, LARGE BOULDERS OR LEDGE OUTCROPS WITHIN 100' OF THE PROPOSED LEACHING AREA. NO WELLS WITHIN 75'.
- 4) SEPTIC TANK SHALL BE 1250 GALLON GILBERT AND SON PRECAST OR EQUAL (FILTER READY).
- 5) DISTRIBUTION BOX SHALL BE PRECAST CONCRETE WITH 6 OUTLETS AND POLYLOK FLOW EQUALIZERS OR EQUAL.
- 6) IN THE FUTURE, DISPOSAL SYSTEM MAY HAVE TO BE REBUILT IN PLACE AS NO ALTERNATE LOCATION HAS BEEN PROVEN.
- 7) THIS LOT IS SERVED BY WELL WATER.
- 8) FLOOR LESS THAN 18" ABOVE SHWT, FOUNDATION DRAINS ARE DESIGNED.



LOCATION PLAN
(Not To Scale)

USGS Quadrangle Reference: Northfield, NH

BELKNAP COUNTY REGISTRY OF DEEDS BOOK 2027 PAGE 0895
SUBDIVISION NAME: MULHERN APPROVAL #: #38665

EFFLUENT DISPOSAL SYSTEM DESIGN
for
TAX MAP 22 PARCEL 2-2B
PERLEY HILL ROAD
SANBORNTON, NH
prepared for
NEWELL AND CRATHERN, LLC
7189 PLEASANT STREET
LOUDON, NH 03307

Scale: 1"=20' Date: July 2004

Prepared By:
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