

TEST PIT, PERC TEST AND SOIL DATA

TEST PIT # 1 DATE: 5/24/2003 PERC TEST 16 MIN/INCH @ 22"

0"-6"	10YR 3/3 Dark Brown Medium Loamy Sand
	Loose, Massive
6"-24"	10YR 5/6 Yellowish Brown Medium Loamy Sand
	Loose, Massive
24"-60"	2.5Y 5/3 Light Olive Brown Medium Sandy Loam
	Friable, Massive, Becomes Firm Block at 30"

SHWT: 24" OWT: N/D ROOTS: 28" LEDGE: N/D

NOTE: TEST PIT EVALUATED BY OTHERS (FROM PREVIOUSLY APPROVED PLAN CA2003054311)

SOIL TYPE: Metacomet ID: 459C

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 RESIDENTIAL OR EQUAL 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: 16 MIN/INCH

DESIGNED FOR 3 BEDROOMS

3 BEDROOMS x 150GPD/BEDROOM = 450 GPD

EFFLUENT DISPOSAL AREA REQUIRED = 1010 SF

-40% CHAMBER REDUCTION, AREA REQUIRED = 606 SF

ENVIRO-SEPTIC TABLE A REQUIREMENT = 180 LF

180 LF PROVIDED (18 UNITS)

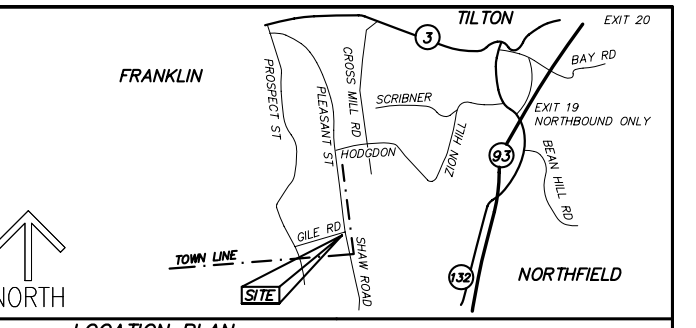
DESIGN INTENT 50% RULE

EXISTING HIGH CONTOUR ELEVATION: 703.10

THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT 703.60 ELEVATION. THERE IS/ARE 0.50 FOOT/FEET ABOVE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL SYSTEM TO MAINTAIN 3.0 FEET TO SHWT OVER 50% OF THE E.D.S..

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 WELLS, WET AREAS, LARGE BOULDERS OR LEDGE OUTCROPS WITHIN 75' OF THE PROPOSED LEACHING AREA.
- 4) SEPTIC TANK SHALL BE 1250 GALLON GILBERT AND SON PRECAST OR EQUAL (FILTER READY).
- 5) DISTRIBUTION BOX SHALL BE PRECAST CONCRETE WITH 5 OUTLETS (3 UTILIZED) 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.
- 9) THIS DESIGN INCORPORATES THE 50% RULE AND THE ENVIRO-SEPTIC Env-WS 1014.05 WAIVER TO LOWER OVERALL SYSTEM HEIGHT.
- 10) ALL MEASUREMENTS TO ENVIRO-SEPTIC PIPES UNLESS OTHERWISE NOTED.



EFFLUENT DISPOSAL SYSTEM DESIGN

for

TAX MAP 141 PARCEL 403

GILE ROAD

FRANKLIN, NH

prepared for

NEWELL AND CRATHERN, LLC

7189 PLEASANT STREET

LOUDON, NH 03307

Scale: 1"=20' Date: October 2004

Prepared By:

BACON CIVIL DESIGN

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