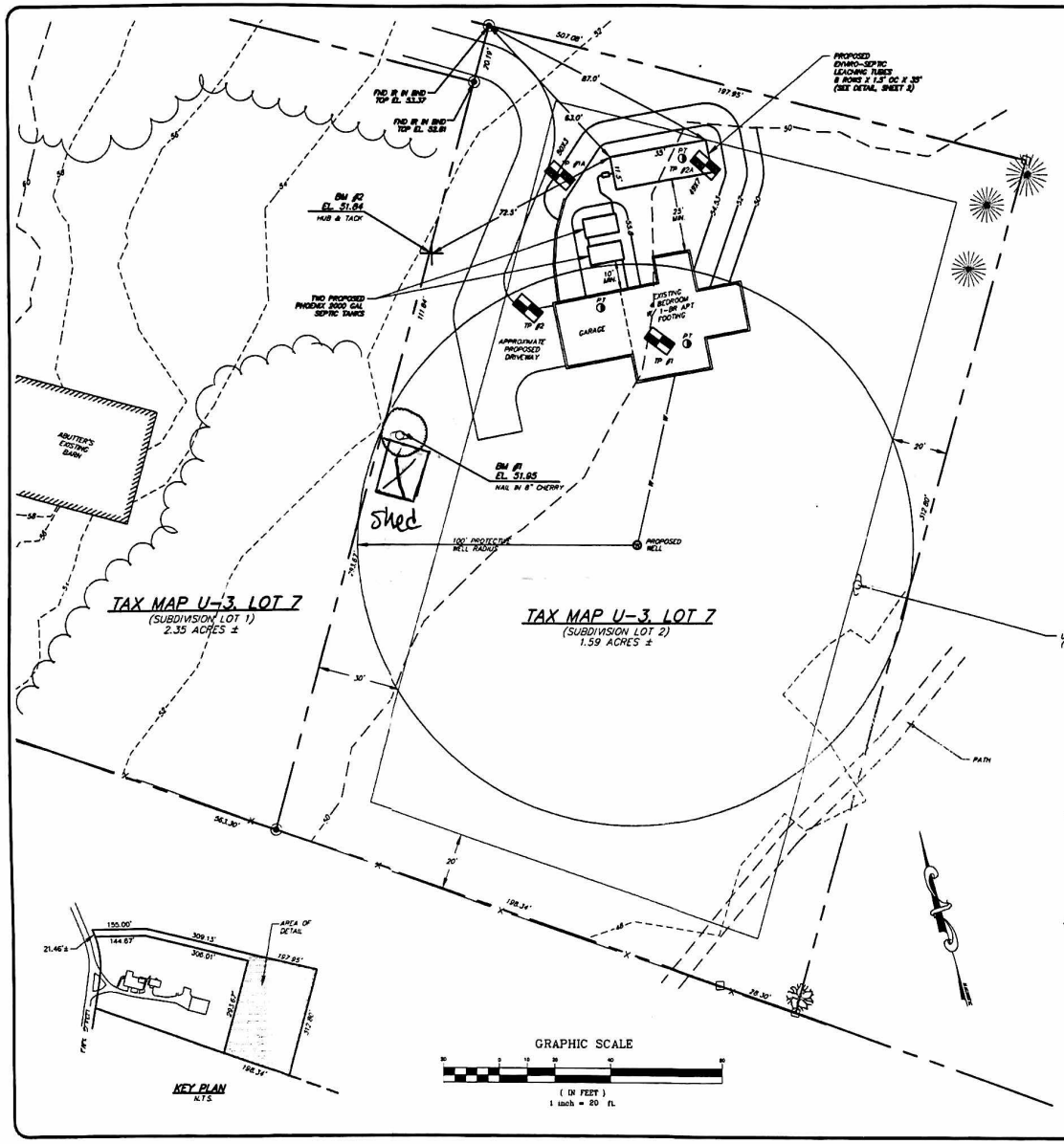


TEST PIT DATA

TEST PIT # 1 EVALUATED BY: SUSAN J. FARETRA DESIGNER: 946 JOB NO.: 01-0687
WITNESSED BY: BOB CUSHMAN DATE: 12/21/2001

DEPTH (IN.)	DESCRIPTION
0-13	10YR3/2, VERY DARK GRAYISH BROWN, (PLOW LAYER) LOAMY SAND, GRANULAR, FRIABLE
13-21	2.5Y5/8, LIGHT OLIVE BROWN, GRAVELLY FINE SANDY LOAM, GRANULAR, FRIABLE
21-31	2.5Y5/8, LIGHT OLIVE BROWN, MEDIUM SAND, MASSIVE, LOOSE (WELL MOTTLED TO 24")
31-48	2.5Y6/4, OLIVE BROWN, MEDIUM SAND, MASSIVE, LOOSE
48-78	2.5Y5/2, GRAYISH BROWN, VERY FINE LOAMY SAND, MASSIVE, FIRM

ESTIMATED SEASONAL HIGH WATER TABLE @ 24 INCHES. OBSERVED WATER TABLE @ NONE INCHES.
RESTRICTIVE @ 48 INCHES. REFUSAL @ NONE INCHES. ROOTS @ 25 INCHES.
PERCOLATION RATE = 5 MINUTES/INCH @ 24 INCHES
NOTES:

TEST PIT # 2 EVALUATED BY: SUSAN J. FARETRA DESIGNER: 946 JOB NO.: 01-0687
WITNESSED BY: BOB CUSHAMAN DATE: 12/21/2001

DEPTH (IN.)	DESCRIPTION
0-12	10YR3/2, VERY DARK GRAYISH BROWN, (PLOW LAYER) LOAMY SAND, GRANULAR, FRIABLE
12-19	2.5Y5/8, LIGHT OLIVE BROWN, GRAVELLY FINE SANDY LOAM, GRANULAR, FRIABLE
19-28	2.5Y5/8, LIGHT OLIVE BROWN, MEDIUM SAND, MASSIVE, LOOSE (WELL MOTTLED TO 24")
28-48	2.5Y6/1, LIGHT YELLOWISH BROWN, FINE SAND, MASSIVE, FRIABLE
48-73	2.5Y5/2, GRAYISH BROWN, VERY FINE LOAMY SAND, MASSIVE, FIRM

ESTIMATED SEASONAL HIGH WATER TABLE @ 23 INCHES. OBSERVED WATER TABLE @ NONE INCHES.
RESTRICTIVE @ 48 INCHES. REFUSAL @ NONE INCHES. ROOTS @ 18 INCHES.
PERCOLATION RATE = N/A MINUTES/INCH @ INCHES
NOTES:

TEST PIT # 1A EVALUATED BY: SUSAN J. FARETRA DESIGNER: 946 JOB NO.: 05-0516
WITNESSED BY: BOB CUSHMAN DATE: 10/5/2006

DEPTH (IN.)	DESCRIPTION
0-4	10YR3/3, DARK BROWN, FINE SANDY LOAM, GRANULAR, FRIABLE
4-24	10YR4/6, DARK YELLOWISH BROWN, LOAMY SAND, MASSIVE, FRIABLE
24-27	2.5Y5/4, LIGHT OLIVE BROWN, SANDY LOAM, PLATY, FIRM
27-42	2.5Y5/8, LIGHT OLIVE BROWN, LOAMY SAND, MASSIVE, FRIABLE
42-53	2.5Y4/3, OLIVE BROWN WITH REDOXIMORPHIC FEATURES, SILT LOAM, BLOCKY, FIRM

ESTIMATED SEASONAL HIGH WATER TABLE @ 24 INCHES. OBSERVED WATER TABLE @ 42 INCHES.
RESTRICTIVE @ 24 INCHES. REFUSAL @ NONE INCHES. ROOTS @ INCHES
PERCOLATION RATE = N/A MINUTES/INCH @ INCHES
NOTES: SOME TOPSOIL HAS BEEN REMOVED

→ TEST PIT # 2A EVALUATED BY: SUSAN J. FARETRA DESIGNER: 946 JOB NO.: 05-0516
WITNESSED BY: BOB CUSHMAN DATE: 10/5/2006

DEPTH (IN.)	DESCRIPTION
0-20	10YR4/6, DARK YELLOWISH BROWN, LOAMY SAND, MASSIVE, FRIABLE
20-24	2.5Y5/4, LIGHT OLIVE BROWN, SIL' LOAM, PLATY, FIRM
24-48	2.5Y5/8, LIGHT OLIVE BROWN WITH REDOXIMORPHIC FEATURES, MASSIVE, FRIABLE
48-60	2.5Y4/3, OLIVE BROWN, SILT CLAY, BLOCKY, FRIABLE

ESTIMATED SEASONAL HIGH WATER TABLE @ 20 INCHES. OBSERVED WATER TABLE @ 48 INCHES.
RESTRICTIVE @ 20 INCHES. REFUSAL @ NONE INCHES. ROOTS @ 20 INCHES.
PERCOLATION RATE = 5 MINUTES/INCH @ 24 INCHES
NOTES: TOPSOIL HAS BEEN REMOVED

TOWN OF GREENLAND NOTE:

THIS DESIGN MEETS TOWN OF GREENLAND SEPTIC SYSTEM REQUIREMENTS OF:
BED BOTTOM 4' TO ESTIMATED SEASONAL HIGH WATER TABLE
BED BOTTOM 5' TO LEDGE/IMPERVIOUS
ALL SETBACK REQUIREMENTS

Town of Greenland

OCT 11 2006

LOT LOADING CALCULATIONS

GROSS LOT SIZE = 1.59 ACRES
NET (MINUS 100' WELL RADIUS) = .87 ACRES
NH-DES SOIL GROUP = 1A = 2000 GPD/ACRE
ALLOWED LOADING= .87 ACRES x 2000 GPD = 1740 GPD
REQUESTED LOADING = 825 GPD TOTAL

SITE NOTES:

1. GRADING SHOWN IS FOR SEPTIC SYSTEM ONLY. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR AND/OR OWNER
2. SEE SHEET 2 OF 2 FOR CONSTRUCTION DETAILS
3. NH-DES REQUIRES A PERIMETER DRAIN IF THE SLAB IS LESS THAN 18" TO THE SHMT. CERTAIN TOWNS REQUIRE A PERIMETER DRAIN AT ALL TIMES - CHECK LOCAL REGULATIONS. NHSC, INC. RECOMMENDS A PERIMETER DRAIN BE INSTALLED REGARDLESS.
4. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED DURING ALL CONSTRUCTION TO PREVENT SITE ALTERATION THAT MAY CAUSE EROSION AND/OR DRAINAGE ISSUES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE FOUNDATION IN SUCH A MANNER AS TO PREVENT WATER INFILTRATION IN THE BASEMENT

DESIGN NOTES

PERC RATE: 5 MIN/IN
DEPTH: 24 INCHES

DESIGN PERC RATE:
6 MIN/IN

HYDRAULIC LOADING:
5.5 BEDROOMS
825 GPD

EFFLUENT DISPOSAL AREA:
REQUIRED: 1250 SF X 6 (TUBES REDUCTION) = 750 SF/3 LF = 250 LF
PROVIDED: 6 ROWS @ 1.5' OC X 35 LF = 280 LF

FOUNDATION DRAINS: ALLOWED

NEAREST ABUTTING WELL: 75'+

NEAREST SURFACE WATER: 75'+

NEAREST POORLY DRAINED WETLAND: 75'+

NEAREST VERY POORLY DRAINED WETLAND: 75'+

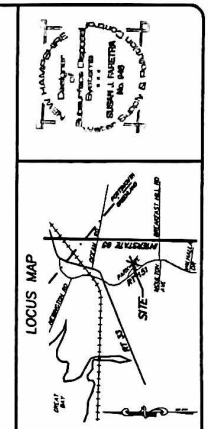
USSCS SOIL CLASSIFICATION:
HOOSIC, SYMBOL 510A, SHEET 21,
ROCKINGHAM COUNTY SOIL SURVEY

BENCH MARKS: AS SHOWN

DESIGN INTENT:
THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT EL. 32.53

THIS IS APPROXIMATELY 28 INCHES ABOVE THE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM.
EL. 30.20

DIMENSIONS - EFFLUENT DISPOSAL AREA:
WIDTH = 11.5'
LENGTH = 35'
DIAGONAL = 36.8'



FOR: SHEAN GRAY
LOCATION: PARK STREET
TAX MAP U-3, LOT 7-2
TOWN: GREENLAND, NH

SUBDIVISION APPROVAL # 2005006526

Date	Description	By

JOB NO.: 05-0516
DATE: 9/06
APPR. BY: SJF
DRAWN BY: BCH
SHEET 1 OF 2

NHS INC. ENVIRONMENTAL CONSULTANTS
The Commons at Kent Place
202 Kent Place
Newmarket, NH 03857
603-659-3500, Fax 603-659-7769
Branch Office: Riverbend Professional Building, 201 Main St., Alton, NH 03809, 603-875-7445, Fax 603-875-7446
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TITLE: PROPOSED SEWAGE DISPOSAL SYSTEM

CA 2006 083991

REVIEWED AND APPROVED

REGISTERED STATE OF NEW HAMPSHIRE SOIL SCIENTIST
WATER DIVISION

Date: OCT 18 2006

RECEIVED OCT 11 2006 By

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