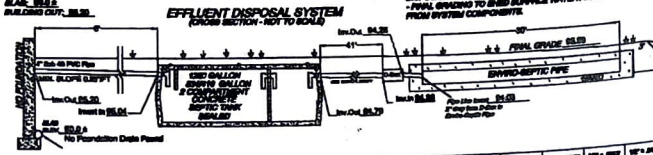
KEY ELEVATIONS

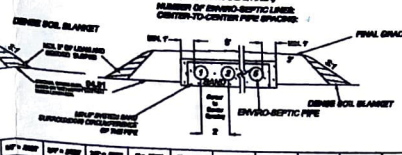
SLAB: 99.0 ±
BUILDING CUT: 98.50

EFFLUENT DISPOSAL SYSTEM
CROSS SECTION - NOT TO SCALE

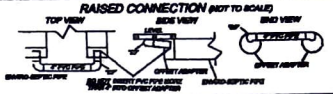


NOTES:
- TOPSOIL AND GRUBBING TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.
- FINAL GRADING TO AVOID SURFACE WATER AWAY FROM SYSTEM COMPONENTS.

EFFLUENT DISPOSAL AREA
CROSS SECTION - NOT TO SCALE
(LEVEL DISPOSAL AREA)
NUMBER OF ENVIRO-SEPTIC LINES:
CENTER-TO-CENTER PIPE SPACING:



RAISED CONNECTION (NOT TO SCALE)



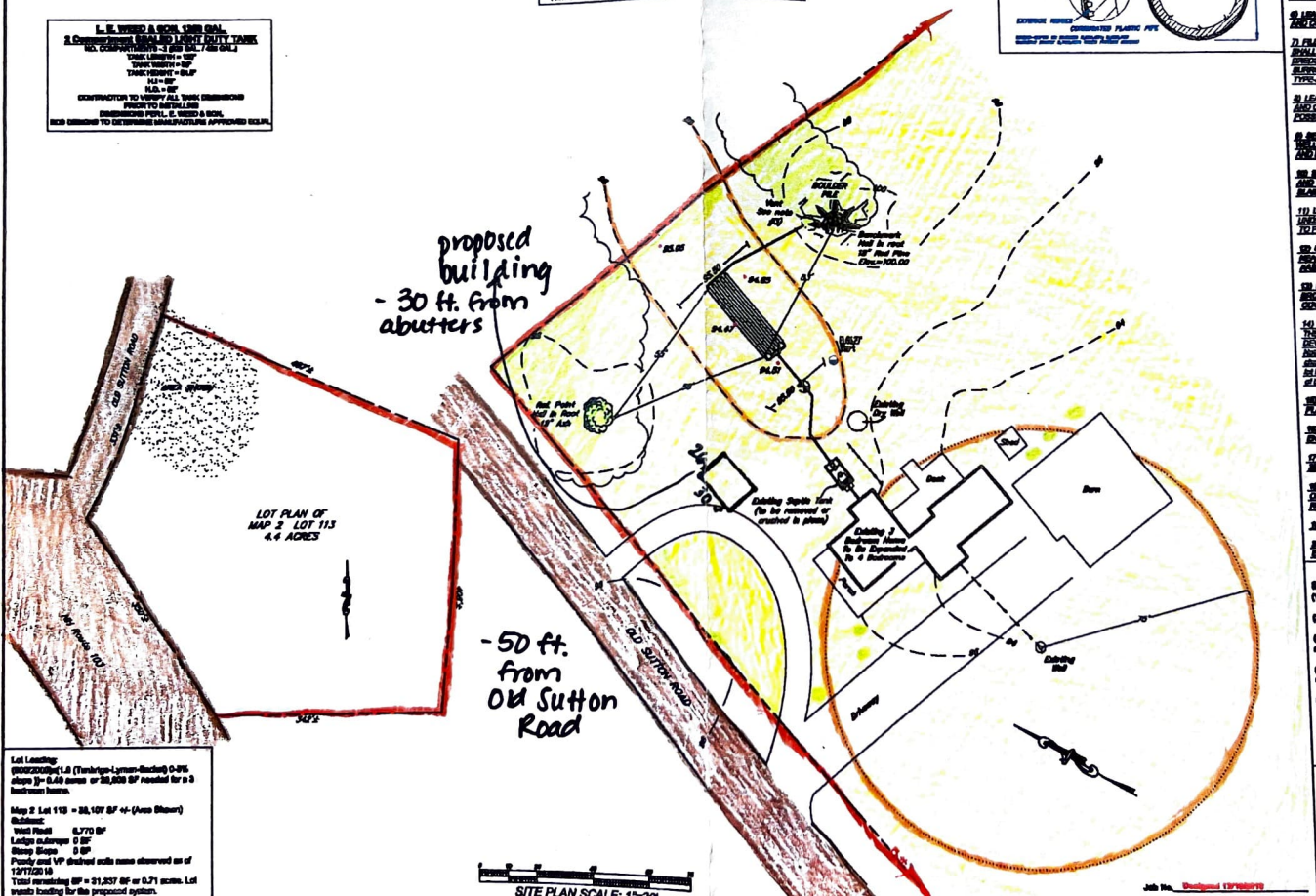
ENVIRO-SEPTIC PIPE ELEVATIONS

LINE NUMBER	1	2	3	4	5
TOP OF PIPE	94.89	94.89	94.89	94.89	94.89
BOTTOM OF PIPE	94.89	94.89	94.89	94.89	94.89

ENVIRO-SEPTIC WASTEWATER TREATMENT SYSTEMS ARE APPROVED BY NHDES AS ITA #2008-03-01 IN ACCORDANCE WITH PART Env-Wq 1024. THIS SYSTEM IS DESIGNED IN ACCORDANCE WITH THE New Hampshire Enviro-Septic Manual.

L.E. WIED A SOIL 1250 GAL.
2 Compartment SEALED LIGHT DUTY TANK
NO. COMPARTMENTS - 2 (66 GAL / 184 GAL)
TANK LENGTH = 109"
TANK WIDTH = 58"
TANK HEIGHT = 64.5"
H.2 = 58"
H.O. = 58"
CONTRACTOR TO VERIFY ALL TANK DIMENSIONS PRIOR TO INSTALLING
DIMENSIONS PERT. S. WIED A SOIL
SCS DESIGNS TO DETERMINE MANUFACTURE APPROVED EQUAL

ENVIRO-SEPTIC LEACHING SYSTEM



Lot Loading:
250/200/Bed LA (Tunbridge-Lyman-Becket) 0-8% slope)= 0.40 acres or 20,909 SF needed for a 3 bedroom home.

Map 2 Lot 113 = 20,107 SF +/- (Area Shown)
Subtract:
Well Radii 6,770 SF
Ledge outcrops 0 SF
Steep Slope 0 SF
Poorly and VP drained soils none observed on 12/7/2016
Total remaining SF = 31,337 SF or 0.71 acres. Lot meets loading for the proposed system.

Job No. Designed 12/19/2016

NOTES

1) SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS. FOR PRODUCT INFORMATION OR THE NEAREST DEALER CONTACT PRESBY ENVIRONMENTAL, INC. ROUTE 117 - PO BOX 917 SUGAR HILL, NH 03586 - PHONE 1-800-423-3556 - WWW.PRESBYENVIRONMENTAL.COM
2) MINIMUM OF 6" OF SEPARATION BETWEEN SAND WITH LESS THAN 3% PASSING A #200 SIEVE REQUIRED ABOVE CRUSHED STONE OF ENVIRO-SEPTIC PIPE. SEE DESIGN AND INSTALLATION MANUAL FOR CONFLICTING SAND AND FILL SPECIFICATIONS.)
3) INSTALLER RECOMMENDED TO CONTACT DIG SAFE PRIOR TO CONSTRUCTION.
4) DO NOT INSTALL SYSTEM ON FROZEN GROUND OR LEAVE SYSTEM UNCOVERED FOR EXTENDED PERIODS OF TIME.
5) NO DRAINS, HOT TUBS, BALMAS, GARBAGE DISPOSALS ETC., SHALL BE INCORPORATED INTO THIS SYSTEM UNLESS OTHERWISE SPECIFIED.
6) MAINTENANCE: RECOMMEND INSPECTION OF SEPTIC TANKS AT LEAST ONCE EVERY TWO YEARS AND CLEAN IF COMBINED THICKNESS OF SLUDGE AND SCUM EQUALS MORE THAN 1/4 OF THE LIQUID DEPTH INSIDE THE TANK.
7) THIS DOCUMENT IS FOR THE CONSTRUCTION OF THE EFFLUENT DISPOSAL SYSTEM SHOWN. ANYONE USING INFORMATION FROM THIS DOCUMENT FOR ANY OTHER PURPOSE DOES SO AT THEIR OWN RISK.
8) SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH ENV-WQ 1000. "APPROVAL FOR CONSTRUCTION" IS VALID FOR 4 YEARS FROM DATE OF ISSUE.
9) LOT LINES TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION, LOT LINES SHOWN ARE APPROXIMATE.
10) BARK MULCH IS NOT RECOMMENDED AS A GROUND COVER OVER LEACH FIELD.

- NO PRODUCT SUBSTITUTIONS PERMITTED WITHOUT PRIOR APPROVAL OF DESIGNER.

SYSTEM DESIGN NOTES

1) DESIGN INTENT: THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM (EDS) SHALL BE CONSTRUCTED AT SLOPE EQUIPOTOR. THIS IS APPROXIMATELY 7" BELOW ORIGINAL GRADED ON THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL SYSTEM.

2) FLOW CALCULATIONS 4 BEDROOMS @ 150 = 600 GPD

3) LENGTH OF ENVIRO-SEPTIC REQUIRED: 100 LF.
LENGTH OF ENVIRO-SEPTIC PROVIDED 100 LF.

4) PROPOSED 1500 GAL 2 COMPARTMENT SEPTIC TANK & A T OUTLET DISTRIBUTION BOX TO BE CONCRETE, BRAND MANUFACTURED BY LE WIED & SON, CONCRETE OR EQUAL FOR GARBAGE DISPOSAL IS UTILIZED. THE SEPTIC TANK VOLUME SHALL BE 600L (LARGER, OR EQUAL BE THICK THE VOLUME WHEN RAW SEWAGE IS BEING PUMPED TO SEPTIC TANK.)

5) DRAIN PIPE TO BE 4" SCH 40 PVC OR EQUAL WITH BEVELED JOINTS.

6) LEACHING PIPE LATERALS TO BE ENVIRO SEPTIC PIPE, LAID LEVEL AND CONNECTED TO THE DISTRIBUTION BOX WITH SOLID PVC.

7) FILL MATERIAL USED TO RAISE THE BOTTOM OF THE LEACH BED SHALL BE CLEAN BANK RUN SAND, FREE OF TOP SOIL OR RUBBISH, DEBRIS/ROCK OR STONES MORE THAN 6 INCHES OF SAND SURROUNDING THE ENVIRO-SEPTIC LEACHING SYSTEM SHALL BE TYPE-A AS SPECIFIED IN THE ENVIRO-SEPTIC MANUAL.

8) LEACH BED, SEPTIC TANK, DISTRIBUTION BOX, LEACHING PIPES, AND CHAMBERS, IF APPLICABLE, SHALL BE LAID AS LEVEL AS POSSIBLE.

9) SEPTIC SYSTEM MUST BE 75' (One Cloth) (50L 75' (ITEM) PRIVATE WATER SUPPLY WELL WITH NO VERTICAL OPENINGS WITHIN 75' OF THE SEPTIC SYSTEM AND 100' FROM ANY PUBLIC WATER SUPPLY WELL AS MEASURED FROM THE NEAREST CONSTRUCTED COMPONENT OF THE SYSTEM AS LISTED.

10) SEPTIC TANK AND LEACH BED ARE TO BE NO CLOSER THAN 4' AND 5' RESPECTIVELY TO FOUNDATION WITH DRAINS, PROVIDED BUILDING IS ABOVE FINISH GRADE OF LEACH FIELD.

11) UNDERGROUND PUMP LINES, PIPES UNDER WHEEL LOADS, OR PIPES UNDER DRIVEWAYS WITHOUT BODY COVER SHALL BE BURIED AT LEAST 4' TO PREVENT FREEZING OR SHALL BE INSULATED.

12) UNDER NO CIRCUMSTANCES SHALL VEHICLES TRAVEL OVER OR PARK ANY SEPTIC SYSTEM COMPONENT, UNLESS DESIGNED FOR AUTOMOTIVE LOADING.

13) SEPTIC TANK AND PUMP CHAMBER OPENINGS SHALL BE ADJUSTED UP TO WITHIN 6" OF GRADE WITH MANHOLE RISER AND COVERS WHEN BACKFILL EXCEEDS 12".

14) WELL SHALL BE 75' FROM PROPERTY LINE UNLESS WAIVED BY THE STATE, OR OVERLAPS INTO AND PROTECTED FROM NEIGHBOR'S.
Note: NHDES policies now require a recalculation of all plans if well location shown here is moved more than 5 feet in any direction before a recalculation for all leaching. This may affect the lot layout as well as necessitate the removal of landscape shrubs. NOTIFY YOUR WELL DRILLER.

15) IF SEWAGE OCCURS, SYSTEM MAY HAVE TO BE REBUILT IN PLACE.

16) A 2" DROP IS OBSERVED FROM THE D-BOX TO THE ENVIRO-SEPTIC PIPES.

17) DEFLECTORS TO BE USED IN D-BOX. D-BOX TO BE PLACED ON A 4" CONCRETE PAD LEVEL.

18) ALL SYSTEMS MUST COMPLY WITH STATUTORY REQUIREMENTS OF RSA 149-E AND AMENDMENTS TO THIS DESIGN. COMMENTS DO NOT RELIEVE THE CONTRACTOR OF HIS/HER RESPONSIBILITY.

19) THIS SYSTEM IS NOT DESIGNED FOR A GARBAGE DISPOSAL.

20) LEACH FIELD TO BE VENTED ACCORDING TO PRESBY ENVIRO-SEPTIC SPECIFICATIONS.

Site Notes:
(1) Bench Mark and Test Pits To Remain Until Final Inspection.
(2) D-box to be placed on a 36" round concrete precast pad, laid level.
(3) The test location may be changed provided it meets NH DES rules & maintains equidistance.
(4) The purpose of this plan is for replacing existing repaired poor condition system and increasing the bedrooms from 3 to 4.
(5) No new construction or disturbance falls within a protected shoreland.
(6) Any variation or discrepancies found in the field or on the plan shall be reported to RCS Designs immediately. No changes shall be made without RCS Designs consent.

Rev:

Town Approval

Designer Stamp
Designer of Subsurface Disposal Systems
Robert C. Stewart Jr.
No. 949

SOIL INFORMATION DATE: 12/14/2017

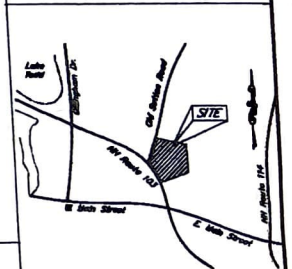
MAP SYMBOL AND NAME: 359B-Tunbridge-Lyman-Becket

PERC. TEST: 2 MIN. / INCH WITH BOTTOM @ 20"

TEST PIT #

0-9"	Dark Brown Fine Sandy Loam Loose Gran./Gr	10YR 3/3
9-17"	Yellowish Brown Fine to Med. Sand Loose Granular	10YR 5/6
17-28"	Light Yellowish Brown Fine to Med. Sand Loose Granular	10YR 6/4
28-72"	Light Olive Brown Fine Sand Loose Granular	2.5Y 5/4

OBSERVED H2O 4.0' ROOTS 12" (Loose)
ESHWT 3.0' IMPERMEABLE LAYER N/O



OWNER: HIBSON REVOC. FAMILY TRUST
SUBDIVISION NAME: N/A PRE'67
SUBDIVISION APPROVAL NO: N/A PRE'67
STREET / TOWN: 9 OLD SUTTON
LOT NO: 113 TAX
DEED REF. No: 3407 PG: 0

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE
REGULATIONS OF THE
NH DEPARTMENT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 1/22/2019
#eCA2019011003

RCS DESIGNS
PO BOX 45
BRADFORD, NH 03221
PH: 603.938.5
EMAIL: RCS