

SITE PREPARATION AND FILL - RAISED SYSTEMS

Check DESIGN INTENT and verify the elevation of existing ground (upslope side) before disturbing site. The "DESIGN INTENT" must be maintained.

Remove all trees, brush, boulders, and debris from the area to be filled. Stumps not to be buried within 75' of Effluent Disposal Area, unless upslope (35' min.).

Remove topsoil, leave subsoil in place, do not compact subsoil with machinery, scarify with teeth of excavator before placing fill. Scarify parallel with contours, working from the center outward. Soil must be dry prior to preparation.

MATERIAL SPECIFICATIONS:
TOPSOIL: 6" of clean loam to be placed as a blanket on top and side slopes.
CLEAN FILL: Permeable soil free of roots, debris, organics, clay, silt, fines, or stones greater than 3".
SEPTIC SAND: Fill to raise the system and for the side slopes as shown on the cross sections to meet the following specification: clean medium to coarse textured sand, no greater than 5% passing the number 200 sieve, and no particles larger than 3".
BEDDING SAND: Use clean coarse sand meeting ASTM standard C-33 (washed concrete sand). Bedding sand used between, 12" around, and 6" above and below tubes.

Sand fill to be pushed onto prepared surface from the side. Do not allow equipment on the scaffolded soil surface. Fill between tubes to be carefully placed with excavator.

Place fill in 12" loose layers using a track type tractor with blade. Always keep a minimum of 9" of fill material beneath tracks of tractor or to minimize compaction of natural soil. Each layer shall be spread in uniform thickness prior to placing next layer. Continuous grading and shaping shall be carried out to assure uniform density throughout each layer.

Entire filled area should be covered with topsoil, seeded, and mulched immediately after backfilling to prevent erosion.

Backfill depth over system to be 12", crowned at 2% to allow runoff.

GENERAL NOTES - LEACHING TUBE SYSTEMS

THIS PLAN DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY OR ENGINEERED SITE PLAN.

Every attempt has been made to accurately identify the relevant property lines depicted on this plan. However, septic system plans are not intended to be used as a survey. A licensed land surveyor should be retained to lay out all buildings on the site and verify that the location will be in compliance with all applicable local zoning requirements prior to construction.

Jason Pohopek Design & Construction, LLC accepts no liability if this plan is used inappropriately.

Any discrepancy between these plans and the apparent field conditions are to be reported to the designer prior to the commencement of any construction.

Leaching tubes to be Enviro-Septic and are to be installed per manufacturer's installation manual.

All septic tanks must have baffles at inlets, outlets, and between compartments.

Outlet baffles to extend 18" below effluent level.

All plastic unions of the baffles are to be primed, glue and reinforced with a stainless steel screw.

All pipe fittings to be primed and glued.

Septic tank to be water tight. All inserted pipe fittings to be rubber booted or be sealed with non-shrink hydraulic cement.

Septic tank must be a minimum of 5 feet from foundations with drains; leaching tubes to be a minimum of 15 feet from foundations with drains.

The foundation drain outlet to be a minimum of 35 feet from the septic tank and leaching tubes.

Sewer line from house to tank to be 4" schedule 40 PVC.
 Sewer line from septic tank to effluent disposal area to be 4" schedule 35.
 Piping within the Effluent Disposal Area to be 4" schedule 35.

Minimum pipe slopes: building to tank = 2% tank to EDA = 1%

Any distribution box shall have flow equalizers on all outlets, unless system utilizes a pump.

Provide a minimum of a 2" drop between any distribution box outlet and tube inlet.

Inlet / outlet interconnections to leaching tubes shall extend no more than 4" into tube but no less than 2" into tube.

All connections from leaching tubes to 4" piping to be made with an offset adapter supplied by the distributor of leaching pipes. See installation manual for specifics.

System must be inspected and approved by NH-DES prior to backfilling.

Effluent Disposal Area may be rebuilt in place, should failure occur, provided that NHDES repair in kind approval has been obtained.

OPERATION AND MAINTENANCE

It is the owner's responsibility to maintain this system in accordance with these "OPERATION AND MAINTENANCE" instructions.

Every system's design capacity is limited. Careful and reasonable water use is required to maximize the system's life.

This system must be operated within its design capacity. The average daily flow to the effluent disposal area should be no more than half its approved design capacity.

This system is not design to handle a sewage ejector pump into the septic tanks.

System is not designed to handle a garbage disposal.

System is not designed to handle discharge from a jacuzzi type bath tub, or similar.

Do not dispose of grease, chemicals, solvents etc. into this system.

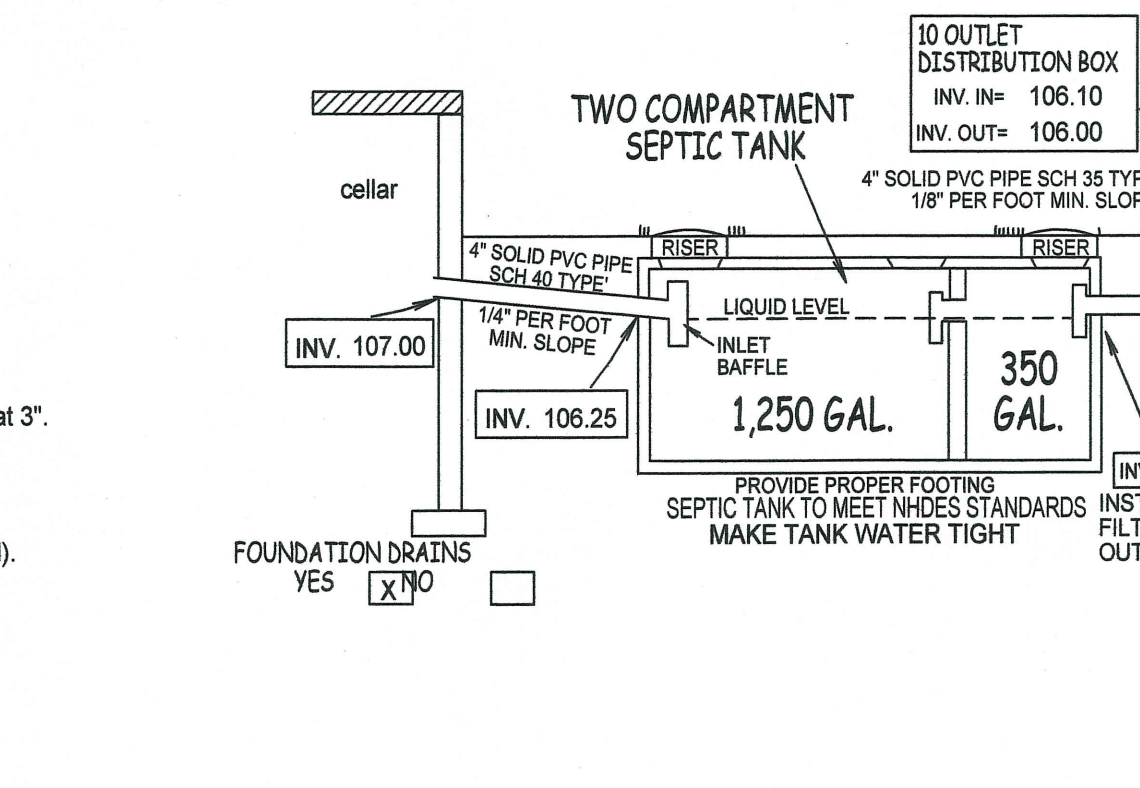
Do not discharge the backwash from water softeners into the septic system. Current NH-DES rules allow that water softener backwash be discharged to a separate drywell. No design or approval is required for this.

Septic tank must be pumped by a licensed hauler at least every two years. Keep pumping receipts as proof of maintenance. Check tank yearly. If sludge and surface scum exceed one-third of liquid depth, have tank pumped.

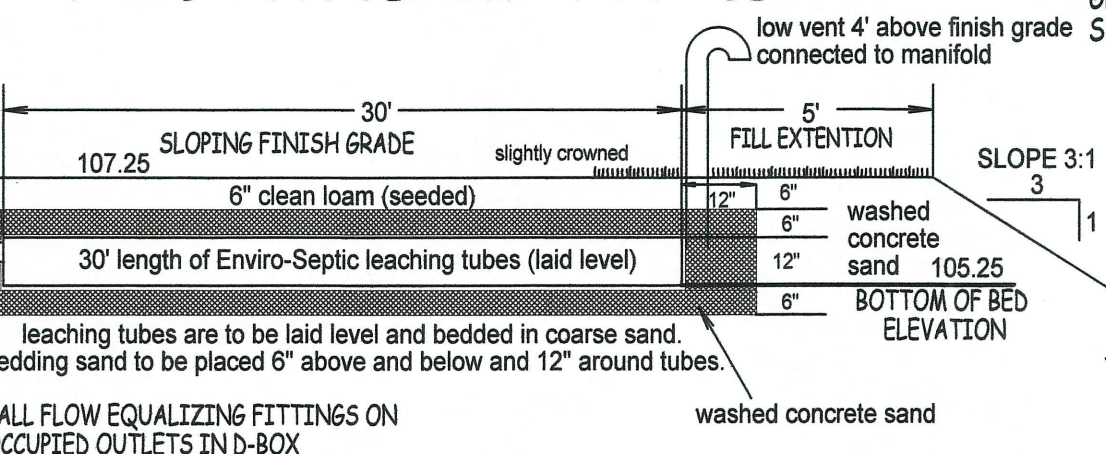
Do not allow vehicular traffic over any component of the system.

The owner should keep a copy of this plan with his/her important documents for future reference. This plan should be provided to any future owner. Copies are available from this office.

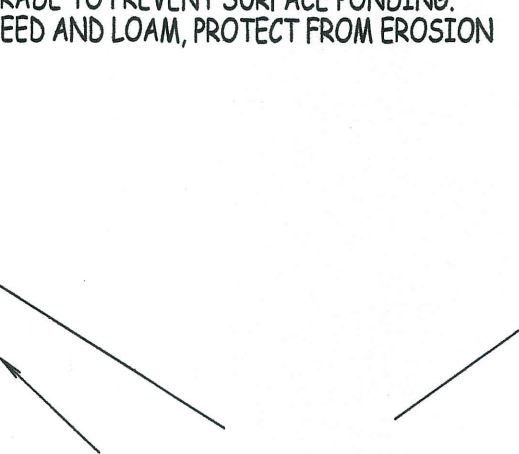
If this design utilizes a septic tank outlet filter, have filter cleaned when tank is pumped. If there are any signs of plumbing backup, call plumber and have the tank and filter cleaned.



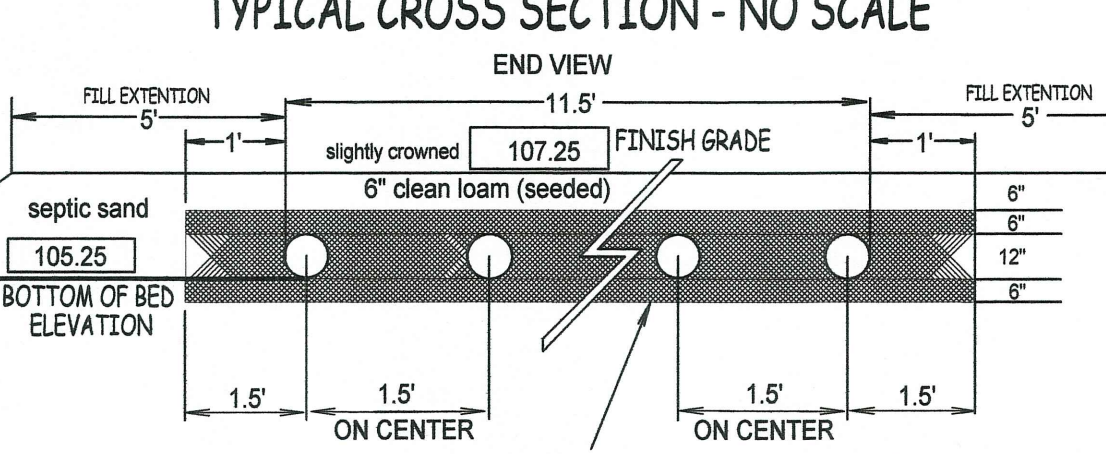
TYPICAL CROSS SECTION - NO SCALE



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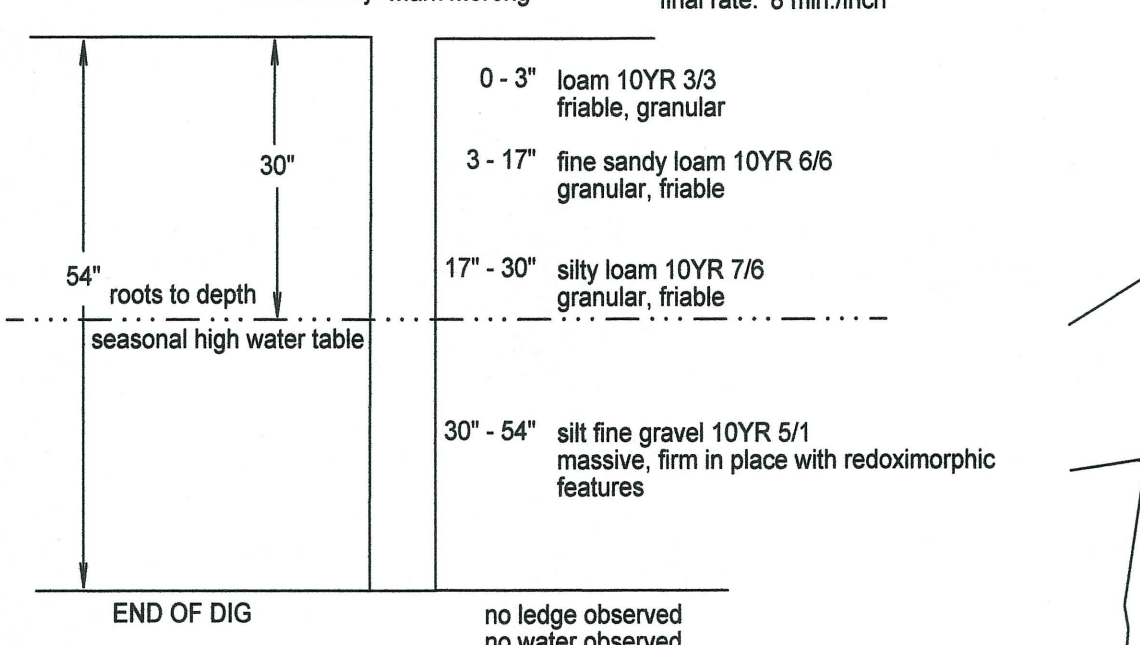


Enviro Septic Pipe configuration sketch

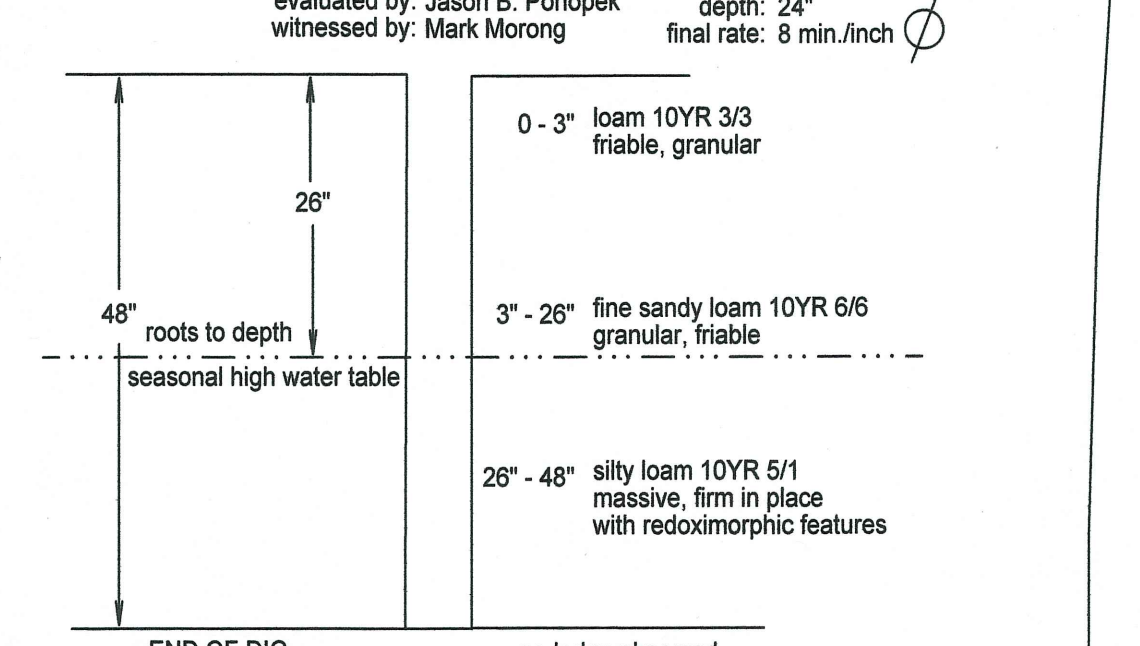


SYSTEM LOADING CALCULATIONS: TOTAL NUMBER OF PROPOSED BEDROOMS = 4 @ PERCOLATION RATE OF 8 MIN. PER INCH
 REQUIRED AMOUNT OF LINEAR FEET OF ENVIRO-SEPTIC PIPING = 220 LF
 PROVIDED AMOUNT OF LINEAR FEET OF ENVIRO-SEPTIC PIPING = 240 LF

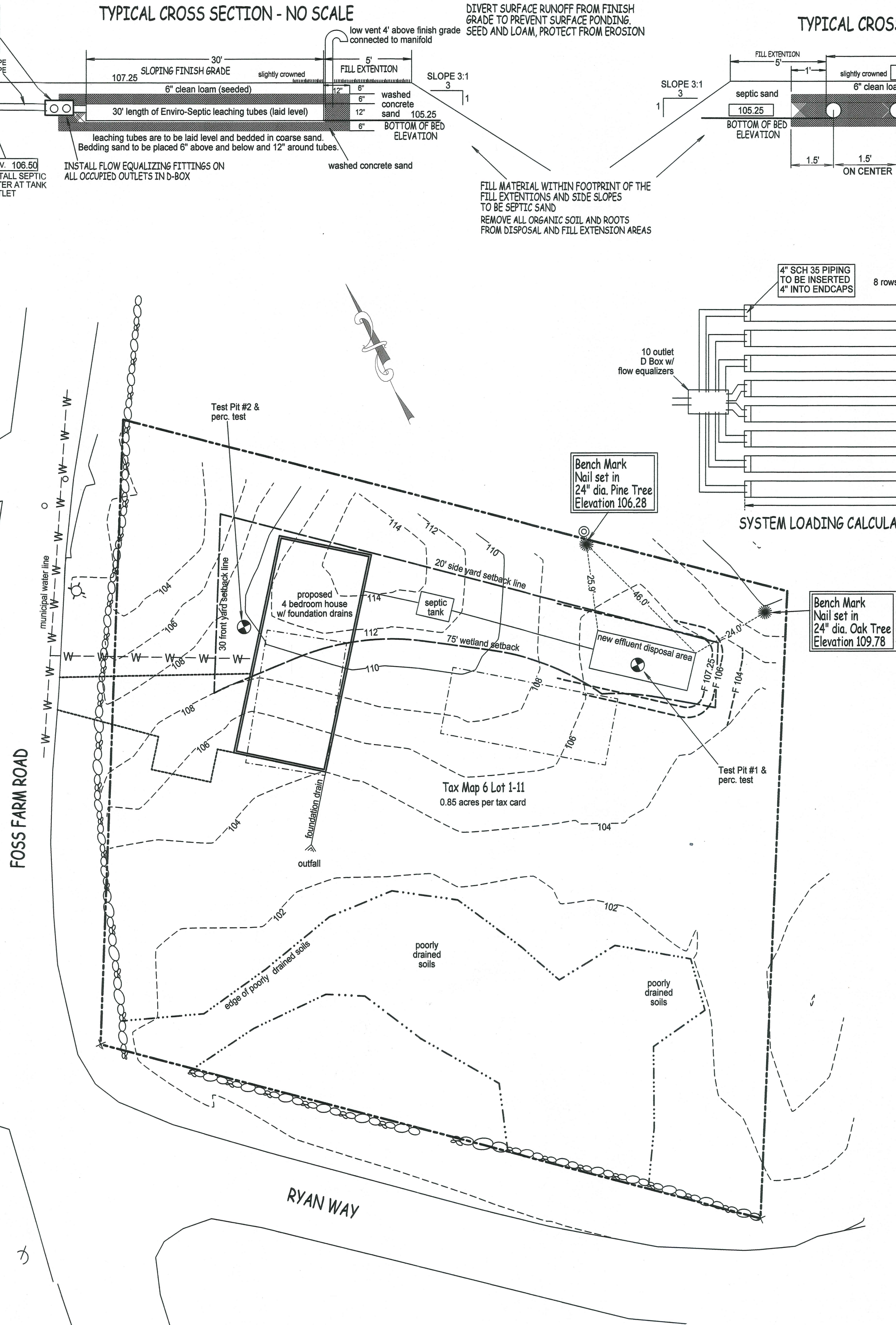
Test Pit #1 PERCOLATION TEST
 date: 09/11/2015
 evaluated by: Jason B. Pohopek
 witnessed by: Mark Morong
 depth: 24"
 final rate: 8 min./inch



Test Pit #2 PERCOLATION TEST
 date: 09/11/2015
 evaluated by: Jason B. Pohopek
 witnessed by: Mark Morong
 date: 09/11/15
 depth: 24"
 final rate: 8 min./inch



LOT LOADING
 2000 X 10.85 acres = 0.00 (well radius)
 1.75 (soil factor) = 965 GPDs allowed or 6 bedrooms



DESIGN INTENT
 Bed bottom to be set at the grade 105.25 which is the existing grade of the upslope corner of the proposed effluent disposal area.

WATER SOURCE
 municipal water supply

S.C.S. SOILS DATA
 ScA Scantic silt loam
 0 to 3% slopes
 sheet 30



Enviro Septic Subsurface System Design

prepared for
Gael Ulrich
 of lot identified as
Tax Map 6 Lot 1-11
 located on
FOSS FARM ROAD & RYAN WAY
 Town of Durham, County of Strafford
 State of New Hampshire
 Date: May 21, 2015
 Plan View Scale: 1" = 20'

PREPARED BY:
JASON POHOPEK
 DESIGN & CONSTRUCTION, LLC
 PO Box 651
 Barrington, NH 03825
 (603) 842-2467

NEW HAMPSHIRE
 Designer of
 Subsurface Disposal
 Systems

 Jason B. Pohopek
 No. 1512
 B. J. Pohopek
 Environmental Services