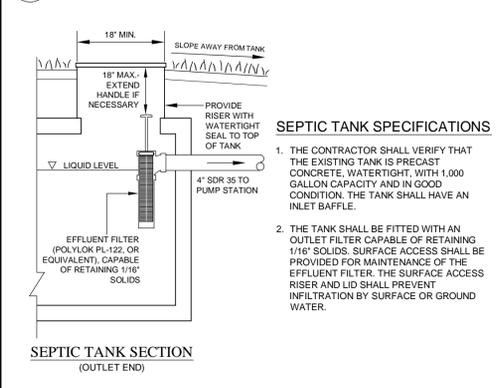
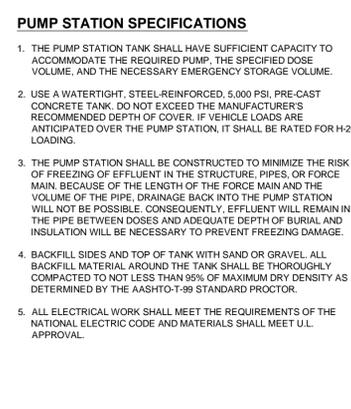
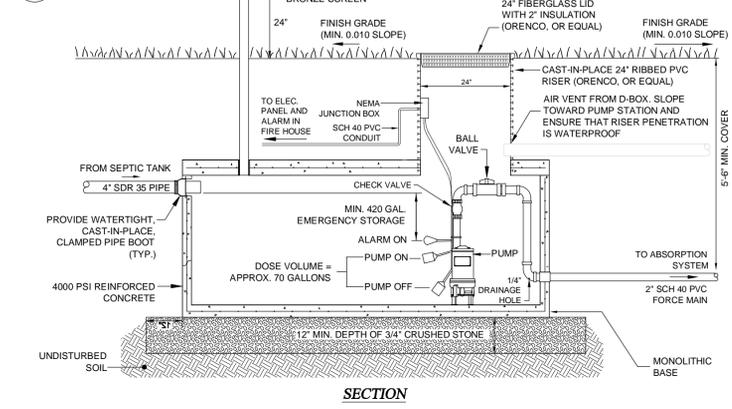


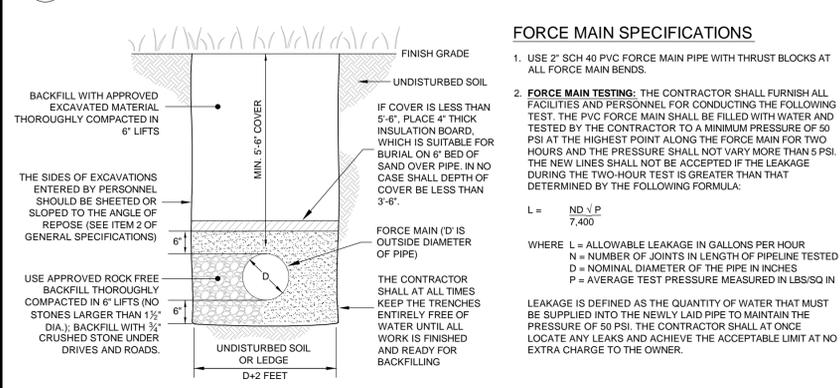
1 SEPTIC TANK (EXISTING WITH MODIFICATIONS)
S1 NOT TO SCALE



2 PUMP STATION
S1 NOT TO SCALE



3 FORCE MAIN
S1 NOT TO SCALE



4 WASTEWATER ABSORPTION SYSTEM
S1 SCALE AS SHOWN

PRESBY SAND SPECIFICATIONS

SYSTEM SAND SHALL HAVE THE FOLLOWING SIEVE ANALYSIS:

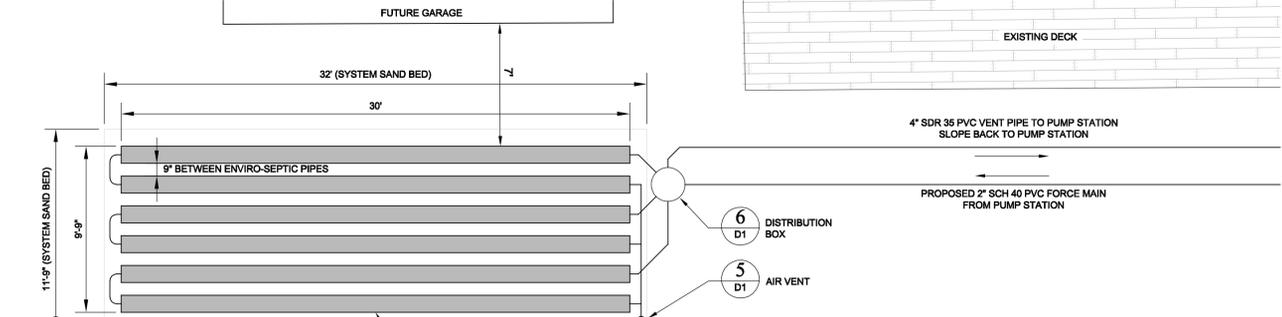
SIEVE NO.	% PASSING
4	85-100
8	80-100
16	50-85
30	25-60
50	10-30
100	2-10
200	0-5

(MODIFIED ASTM SPECIFICATION C-33)

SAND FILL SHALL HAVE ONE OF THE FOLLOWING SIEVE ANALYSES:

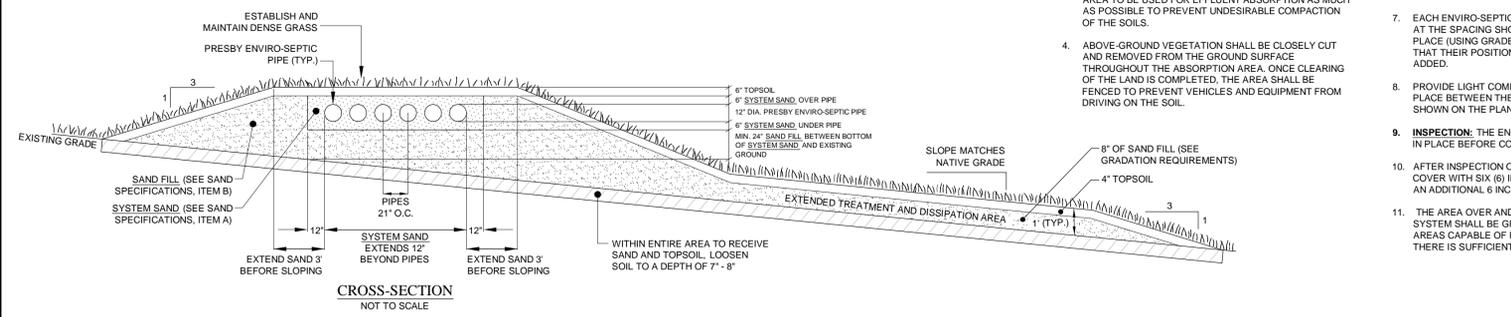
SIEVE NO.	% PASSING
4	95-100
8	80-100
16	50-85
30	25-60
50	10-30
100	2-10
200	0-5

(MODIFIED ASTM SPECIFICATION C-33)



ABSORPTION SYSTEM SPECIFICATIONS

- INSTALL SYSTEM IN ACCORDANCE WITH VERMONT INNOVATIVE/ALTERNATIVE SYSTEM APPROVAL #2004-02 (2010), THE VERMONT DESIGN AND INSTALLATION MANUAL, THE VERMONT WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES, AND THESE PLANS.
- DO NOT INSTALL SYSTEM ON FROZEN GROUND OR LEAVE SYSTEM UNCOVERED FOR EXTENDED PERIODS OF TIME.
- CONSTRUCTION EQUIPMENT SHALL BE KEPT OFF THE AREA TO BE USED FOR EFFLUENT ABSORPTION AS MUCH AS POSSIBLE TO PREVENT UNDESIRABLE COMPACTION OF THE SOILS.
- ABOVE-GROUND VEGETATION SHALL BE CLOSELY CUT AND REMOVED FROM THE ABSORPTION AREA. ONCE CLEARING OF THE LAND IS COMPLETED, THE AREA SHALL BE FENCED TO PREVENT VEHICLES AND EQUIPMENT FROM DRIVING ON THE SOIL.
- PREPARE THE SOIL SURFACE BY PLOWING, OR TURNING UP WITH A BACKHOE BUCKET, THE UPPER 1'-8" OF SOIL OVER THE ENTIRE FOOTPRINT OF THE WASTEWATER ABSORPTION SYSTEM.
- PLACE SAND FILL, MEETING ONE OF THE THREE SPECIFICATIONS IN ITEM 'B' IN THE TABLE, OVER THE PREPARED AREA AS SHOWN ON THE PLAN. THE SAND FOR 6 INCHES BELOW, 6 INCHES ABOVE, AND FOR A DISTANCE OF 1 FT AROUND THE PERIMETER OF THE PRESBY ENVIRO-SEPTIC® PIPES, SHALL MEET THE SPECIFICATIONS FOR SYSTEM SAND SHOWN IN ITEM 'A' OF THE TABLE.
- EACH ENVIRO-SEPTIC® PIPE SHALL BE INSTALLED LEVEL AT THE SPACING SHOWN AND TEMPORARILY HELD IN PLACE (USING GRADE STAKES OR A SIMILAR METHOD) SO THAT THEIR POSITIONS DO NOT SHIFT AS SAND IS BEING ADDED.
- PROVIDE LIGHT COMPACTION BY WALKING THE SAND INTO PLACE BETWEEN THE PIPES. INSTALL THE VENT AS SHOWN ON THE PLAN.
- INSPECTION: THE ENGINEER MUST OBSERVE THE PIPING IN PLACE BEFORE COVERING WITH SAND AND TOPSOIL.
- AFTER INSPECTION OF THE ABSORPTION SYSTEM PIPING, COVER WITH SIX (6) INCHES OF SYSTEM SAND, AND THEN AN ADDITIONAL 6 INCHES OF TOPSOIL.
- THE AREA OVER AND AROUND THE WASTEWATER SYSTEM SHALL BE GRADED SUCH THAT THERE ARE NO AREAS CAPABLE OF PONDING WATER AND SO THAT THERE IS SUFFICIENT SLOPE TO ENSURE DRAINAGE.



WASTEWATER SYSTEM DESIGN DATA

- IT IS THE OPINION OF THE DESIGNER THAT THE SOIL CONDITIONS WITHIN THE PROPOSED WASTEWATER SYSTEM AREA DO NOT MEET THE REQUIREMENTS OF THE VERMONT ENVIRONMENTAL PROTECTION RULES-CHAPTER 1 FOR ON-SITE WASTEWATER SYSTEMS, BUT THAT ACCEPTABLE SEWAGE TREATMENT CAN BE ACHIEVED THROUGH THE USE OF A MOUND SYSTEM WITH AN EXTENDED TREATMENT AREA. IT WILL FURTHERMORE BE A SUBSTANTIAL UPGRADE FROM THE EXISTING IN-GROUND SYSTEM.
 - BASIS OF DESIGN** (USING PRESBY ENVIRO-SEPTIC PIPE)
 - NO. OF BEDROOMS = 3
 - PERCOLATION RATE = 12.8 MIN/IN
 - MIN. LENGTH OF PIPE (FROM TABLE A) = 165 FT
 - PIPE SPACING FOR 3% SLOPE AND PERCOLATION RATE OF 13 MIN/IN (FROM TABLE B) = 1.75 FT O.C.
 - MIN. SYSTEM SAND AREA (FROM TABLE D) = 338 SQ FT
- SYSTEM DESIGN: USE 180 LN FT OF ENVIRO-SEPTIC® PIPE CONSISTING OF SIX (6) 30 FT LENGTHS SPACED 1.75 FT ON CENTER. SYSTEM SAND AREA PROVIDED IS 376 SQ FT (11.75' x 32').

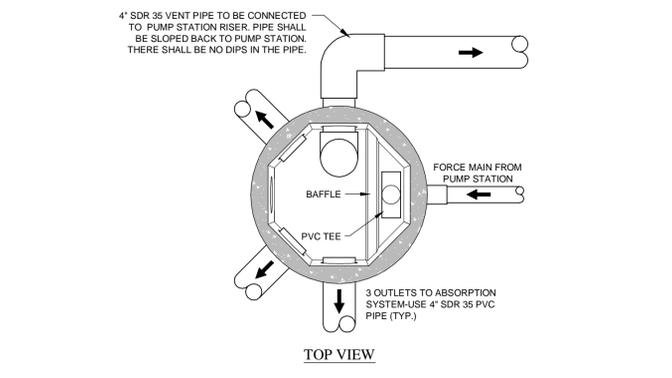
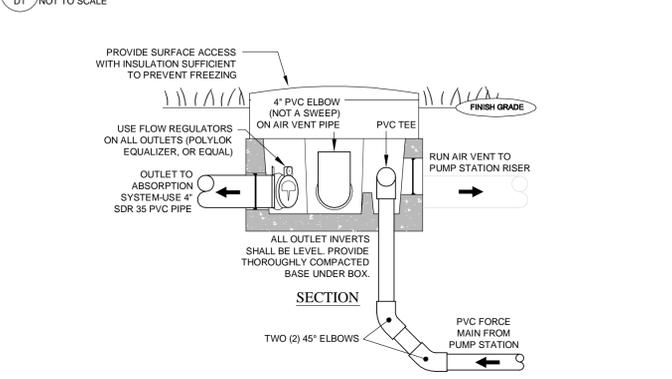
GENERAL SPECIFICATIONS

- UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM THE BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON.
- THE CONTRACTOR SHALL NOTIFY "DIG SAFE" AT 8-1-1 PRIOR TO ANY EXCAVATION.
- LAMOUREUX & DICKINSON DOES NOT UNDERTAKE OR ASSUME ANY RESPONSIBILITY FOR SAFETY ON THE CONSTRUCTION SITE BUT DOES REMIND THE CONTRACTOR THAT THEY SHOULD WORK IN STRICT COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING VEGETATION, PAVEMENT AND STRUCTURES NECESSARY TO DEVELOP THIS PROPERTY UNLESS OTHERWISE NOTED ON THESE PLANS. CONTRACTOR SHALL REMOVE ALL TRASH FROM SITE UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A NUISANCE OR A SAFETY HAZARD. WHERE AND WHEN DEEMED NECESSARY BY THE ENGINEER, THE CONTRACTOR WILL BE REQUIRED TO WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER, APPLY CALCIUM CHLORIDE, OR SWEEP THE ROADWAY WITH A POWER BROOM AS DUST CONTROL.
- ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL AND SHALL BE IMMEDIATELY SEEDED AND MULCHED/MATTED AFTER COMPLETION OF GRADING. ANY WORK PERFORMED AFTER OCTOBER 1 OF EACH YEAR SHALL BE STABILIZED WITH MULCH OR MATTING SUFFICIENT TO PREVENT EROSION AND SHALL BE IMMEDIATELY SEEDED AND RE-MULCHED OR RE-MATTED AS SOON AS WEATHER PERMITS IN THE SPRING.
- ALL SLOPES, DITCHES, AND DISTURBED AREAS SHALL BE GRADED SMOOTH AND BE FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.
- ALL FILL OR BACKFILL SHALL BE PLACED IN 6 INCH LIFTS AND THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR.

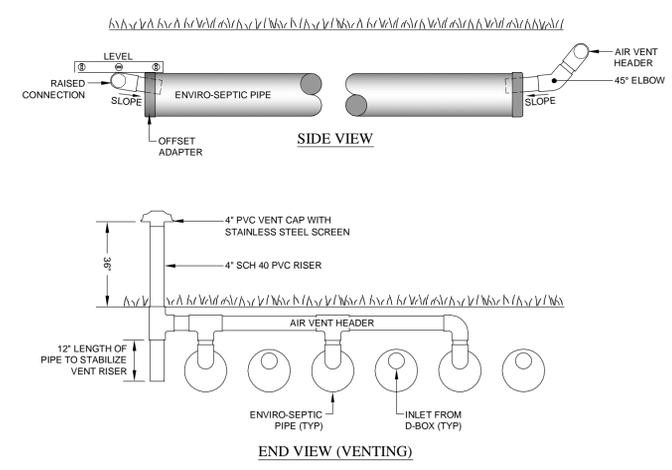
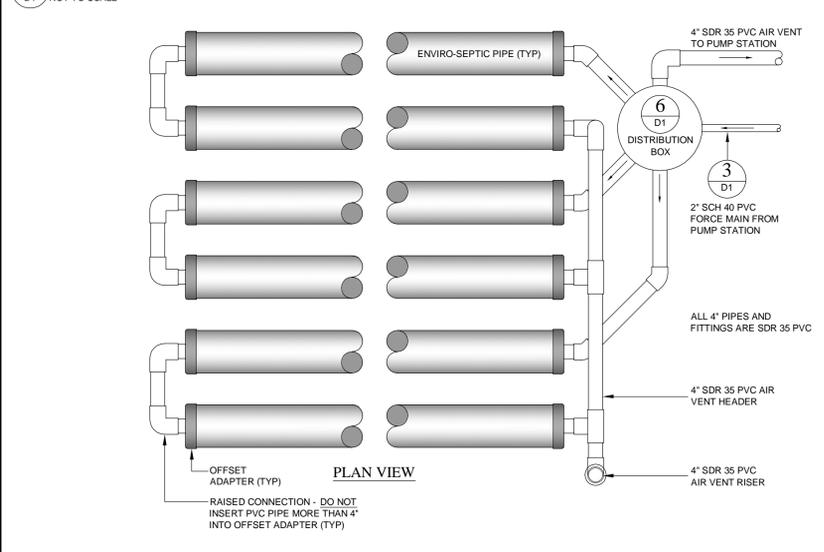
MAINTENANCE

- ONCE PER YEAR, THE SEPTIC TANK SHALL BE INSPECTED BY A QUALIFIED PERSON FOR THE ACCUMULATION OF SLUDGE AND SCUM. THE TANK SHALL BE PUMPED IF THE DEPTH OF SLUDGE IS GREATER THAN 12 INCHES OR THE DEPTH OF SCUM IS GREATER THAN 6 INCHES, OR IS LIKELY TO BE SO BEFORE THE NEXT INSPECTION.
- ONCE EVERY 6 MONTHS, OR MORE OFTEN AS NEEDED, THE SEPTIC TANK EFFLUENT FILTER SHALL BE CLEANED BY HOISING IT OFF INTO THE SEPTIC TANK.
- ONCE PER YEAR, THE PUMP STATION SHALL BE INSPECTED BY A QUALIFIED PERSON. PROPER FUNCTIONING OF THE PUMP, FLOATS, AND ALARM SHALL BE VERIFIED, AND ANY ACCUMULATED SOLIDS SHALL BE REMOVED.
- ONCE PER YEAR, THE ABSORPTION SYSTEM SHALL BE INSPECTED BY A QUALIFIED PERSON. THE PROPER FUNCTIONING OF THE SYSTEM SHALL BE VERIFIED AND ANY NECESSARY REPAIRS, OR OTHER MAINTENANCE, SHALL BE DONE PROMPTLY.
- DO NOT FLUSH OR DISCHARGE TO THE SEWAGE DISPOSAL SYSTEM ANY MATERIALS THAT ARE NON-BIODEGRADABLE OR SLOW TO DECOMPOSE. SUBSTANCES THAT CAN SLOW OR HALT BIOLOGICAL ACTIVITY, OR MATERIALS THAT CAN OVERLOAD THE TREATMENT CAPACITY OF THE SYSTEM, THIS INCLUDES, FOR EXAMPLE: FOOD WASTE, CAT LITTER OR PET WASTE, HIGH-STRENGTH PAPER TOWELS, FEMINE NAPKINS AND TAMPONS, CONDOMS, FATS AND OILS, PESTICIDES, DISINFECTANTS, STRONG ACIDS AND BASES, PAINTS, SOLVENTS, SOIL, AND SALTS. DO NOT USE GARBAGE DISPOSALS.
- EXCESS WATER USAGE WILL SIGNIFICANTLY REDUCE THE LIFE OF ANY SEWAGE DISPOSAL SYSTEM. WATER FIXTURES SHALL BE REGULARLY INSPECTED FOR LEAKS AND PROMPTLY REPAIRED IF NECESSARY. INSTALL AND MAINTAIN WATER-CONSERVING FIXTURES (TOILETS WITH MAX. 1.6 GALLON FLUSH AND SHOWERHEAD AND FAUCET AERATORS WITH MAX. 2 GALLON PER MINUTE FLOW).
- THIS WASTEWATER SYSTEM DESIGN INCLUDES ONE OR MORE STRUCTURES THAT MEET THE DEFINITION OF A "CONFINED SPACE" UNDER NO CIRCUMSTANCES SHALL A CONFINED SPACE BE ENTERED EXCEPT IN STRICT CONFORMANCE WITH OSHA REQUIREMENTS.

6 PRECAST CONCRETE DISTRIBUTION BOX
D1 NOT TO SCALE



5 ABSORPTION SYSTEM PIPING
D1 NOT TO SCALE



1-17-2014	REVISE SAND SPECS	BJT
Date	Revision	By
These plans shall only be used for the purpose shown below:		
<input type="checkbox"/> Sketch/Concept	<input type="checkbox"/> Act 250 Review	
<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction	
<input checked="" type="checkbox"/> Final State/Local Review	<input type="checkbox"/> Record Drawing	
Property of Matthew & Lauren Daley 2255 Greenbush Road Charlotte, Vermont		
Wastewater System Details and Specifications		
Project No. 13055	Survey L&D	Design BJT
Drawn BJT	Checked DJG	Date 12-12-2013
Scale NOT TO SCALE	Sheet number	D1
Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDEngineering.com		
2 sheets total		