TECHNICAL
SECTION
2000
TRAINING

LIQUID WASTE

LAND USE

SOLID WASTE

BIOSOLIDS

HOUSING

VECTOR

WATER
INDIVIDUAL
PUBLIC

LIQUID WASTE LAWS

PORTER COLOGNE WATER QUALITY ACT

Creates the State Water Resources Control Board

Water Resource Control Board is divided into 9 Regional Water Quality Control Boards.

Each Regional Board has developed a Basin Protection Plan and implemented guidelines for on-site sewage.

MOU grants county the authority to oversee on-site program. Local ordinance and regulations are reviewed by RWQCB to ensure compliance with Basin Plan.

LIQUID WASTE LAWS

CALIF. HEALTH AND SAFETY CODE

Section 5411 - Prohibits improper discharge of waste.

17920.3 - substandard housing code sections.

UNIFORM PLUMBING CODE

Adopted by local ordinances and CA state law.

Governs prohibitions, construction, materials, and inspections.

LIQUID WASTE LAWS

LOCAL ORDINANCES

FUNCTION OF A SEPTIC SYSTEM

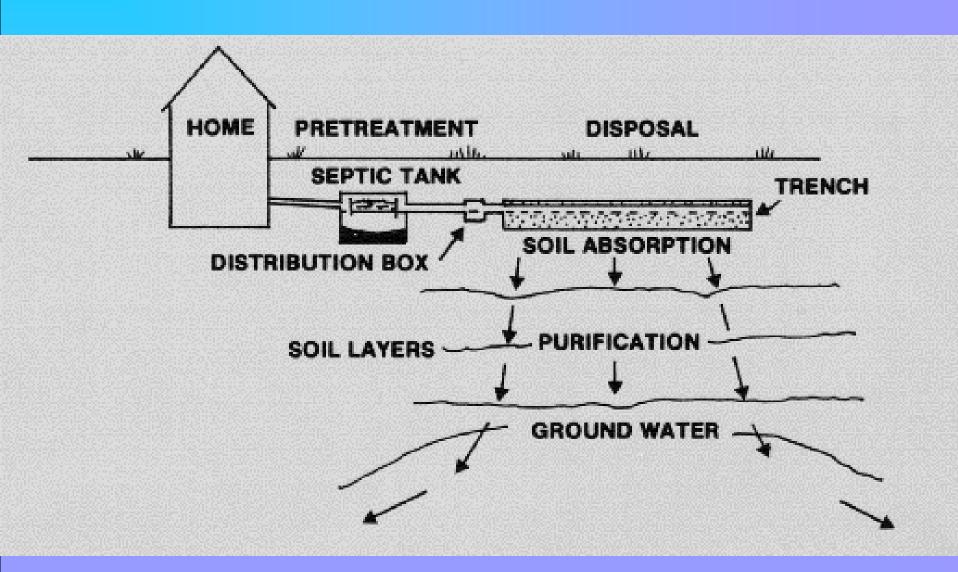
• TREAT SEWAGE SO THAT IT IS MADE HARMLESS.

KILL DISEASE CAUSING BACTERIA, VIRUSES, AND PROTOZOANS.

REDUCE HOUSEHOLD CHEMICAL CONCENTRATIONS.

REDUCE BIOLOGICAL OXYGEN DEMAND.

DISPOSE OF SEWAGE (MAKE IT GO AWAY).



LIQUID WASTE STEPS TO INSTALLING A SEPTIC SYSTEM

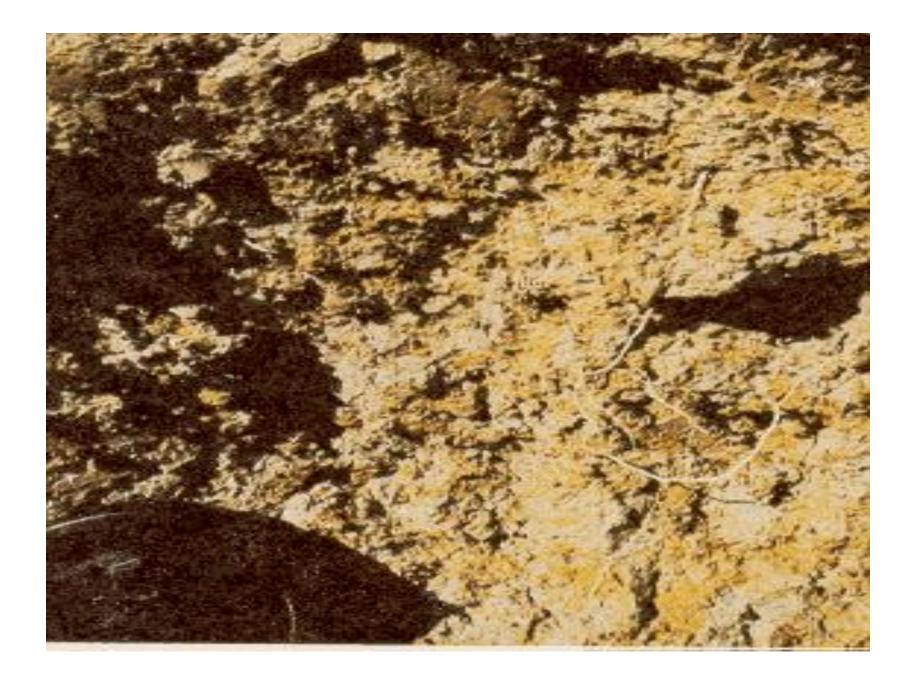
SITE EVALUATION

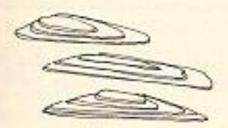
WITHOUT THOROUGH SITE EVALUATION
TO DETERMINE THE BEST LOCATION AND
DESIGN OF THE SEPTIC SYSTEM EVEN A WELL
CONSTRUCTED AND PROPERLY USED SYSTEM
MAY PREMATURELY FAIL.

ON SITE REVIEW
SOIL PROFILE EVALUATION
HYDROMETER TEST
PERCOLATION TEST

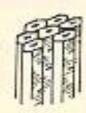




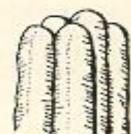




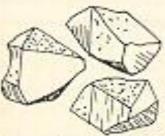
PLATY STRUCTURE



PRISMATIC STRUCTURE



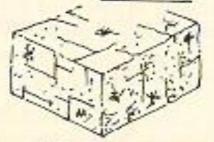
COLUMNAR PRISMATIC STRUCTURE



ANGULAR BLOCKY STRUCTURE



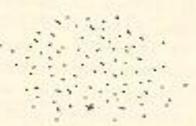
STRUCTURE



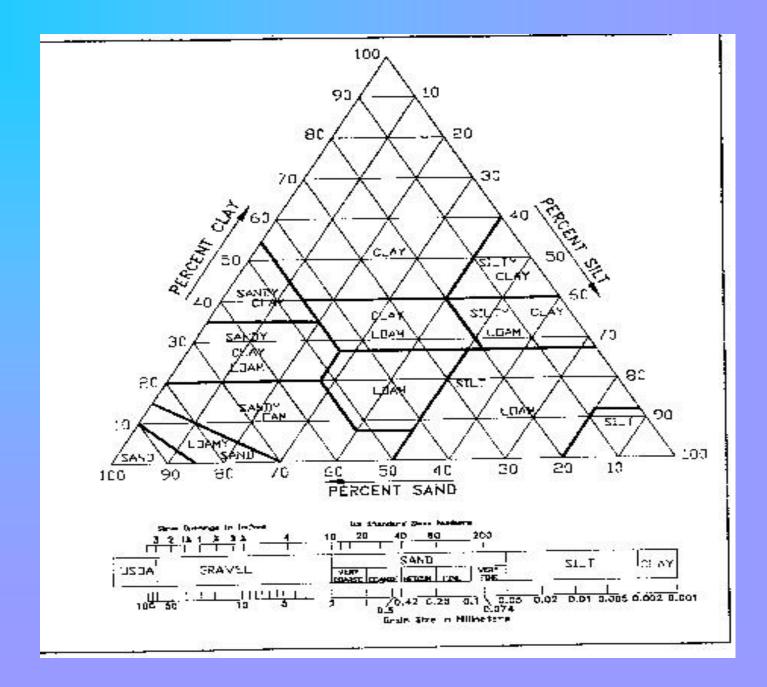
MASSIVE STRUCTURE



STRUCTURE



STRUCTURE



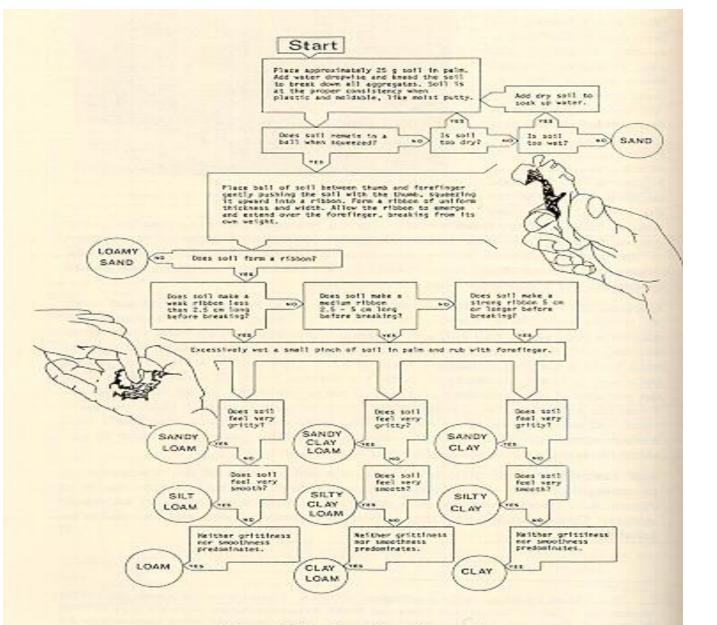
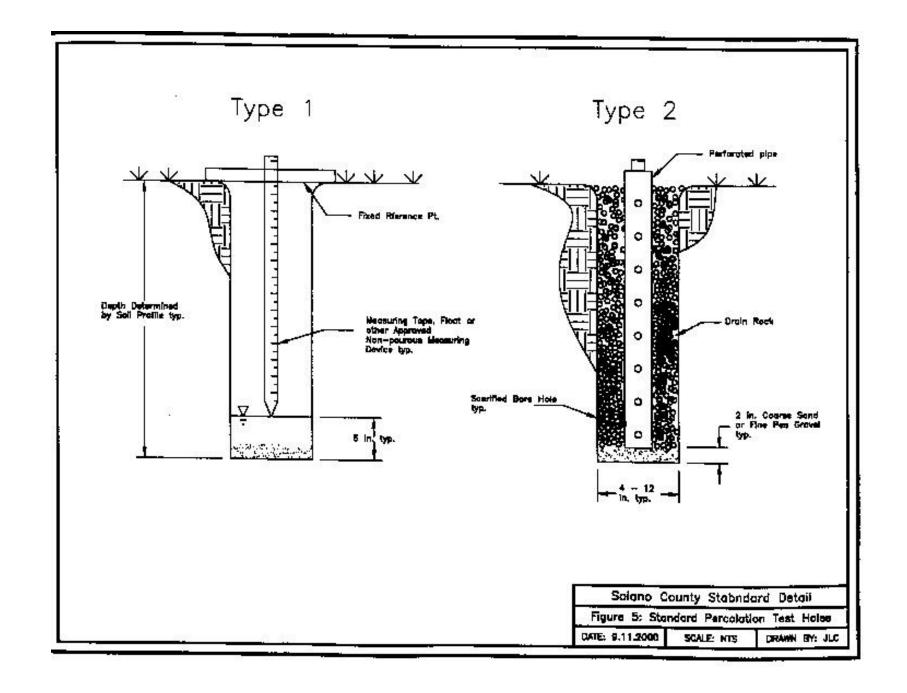


Figure 4.9 - Steps in soil texturing

Fine Earth Fraction	
Class	Size
Sand	0.05 - 2.0 mm
Silt	0.002 - 0.05 mm
Clay	<0.002 mm

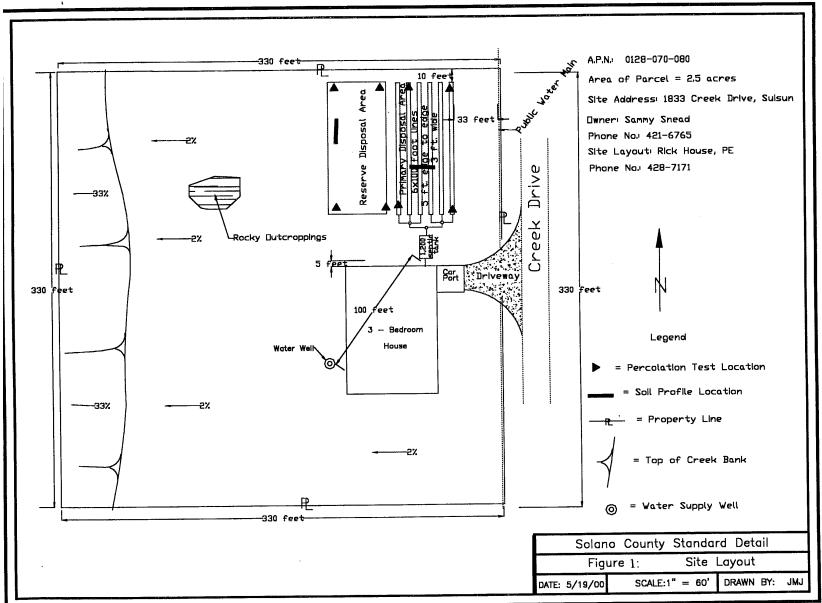


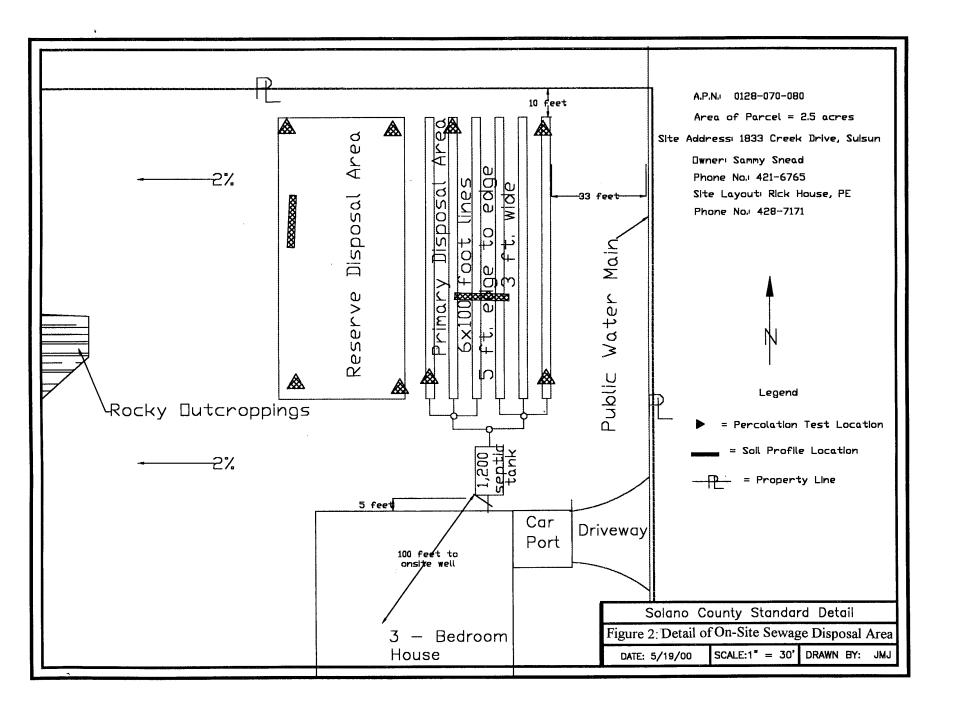
LIQUID WASTE STEPS TO INSTALLING A SEPTIC SYSTEM

SITE EVALUATION

PLAN REVIEW

IF THE DESIGN DOES NOT ADDRESS CONDITIONS AT THE SITE, EVEN THE BEST CONSTRUCTED AND PROPERLY USED SEPTIC SYSTEM MAY FAIL PREMATURELY OR CAUSE ENVIRONMENTAL CONTAMINATION.





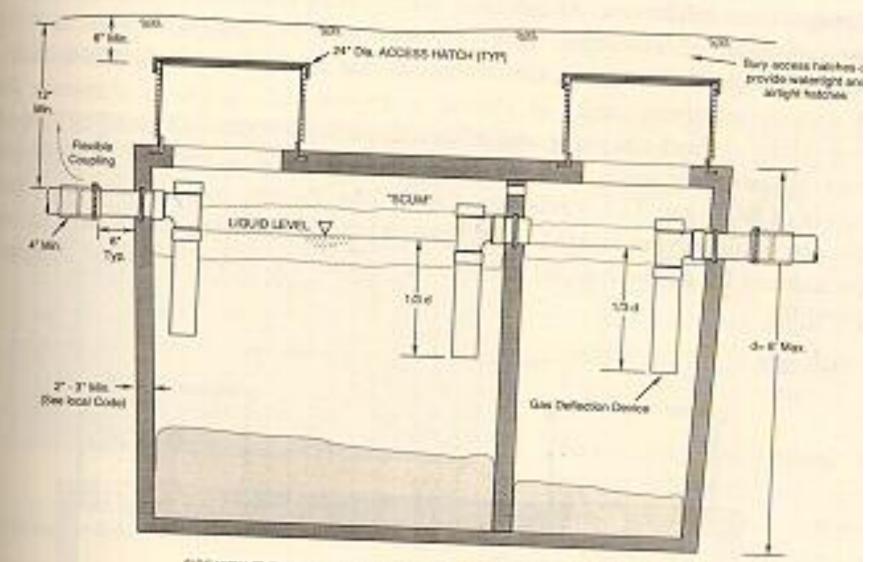
LIQUID WASTE STEPS TO INSTALLING A SEPTIC SYSTEM

SITE EVALUATION

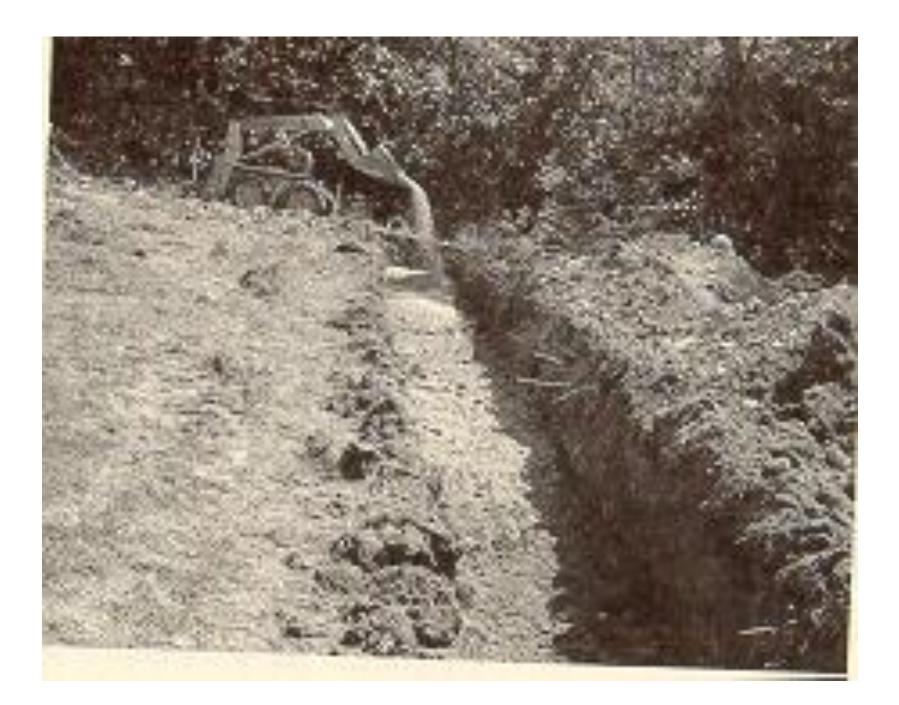
PLAN REVIEW

CONSTRUCTION

EVEN IF A SYSTEM IS SITED AND USED PROPERLY IT MAY HAVE A SHORTEND LIFESPAN IF FAULTY CONSTRUCTION MATERIALS ARE USED, OR PROPER MATERIALS ARE USED, BUT INSTALLED WRONG.



SIDE VIEW (TYP) TWO - COMPARTMENT 1900 GALLON SEPTIC / PLAFTANK





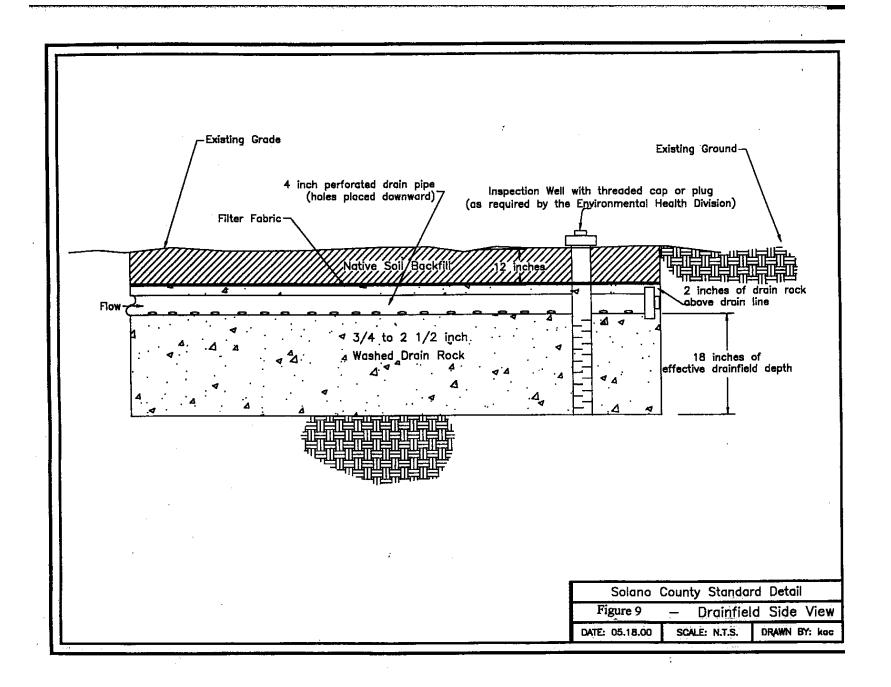
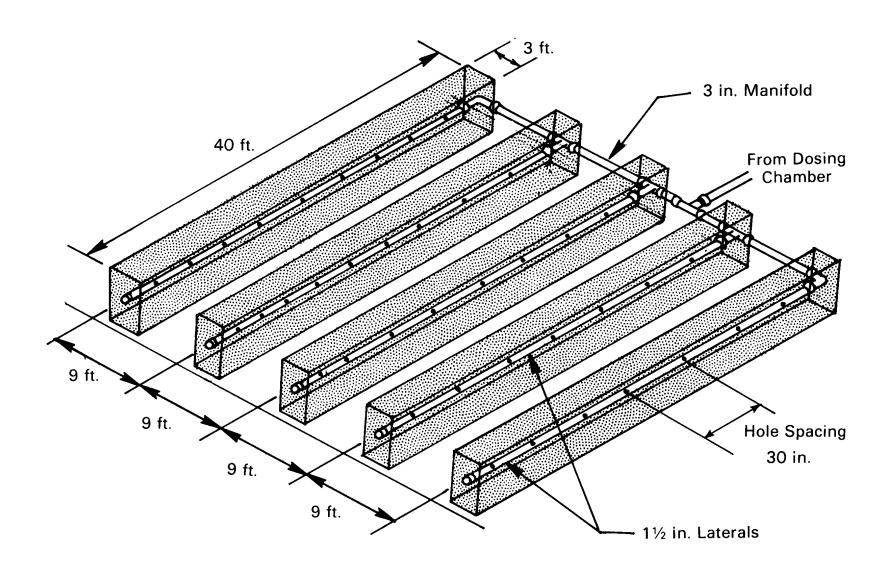
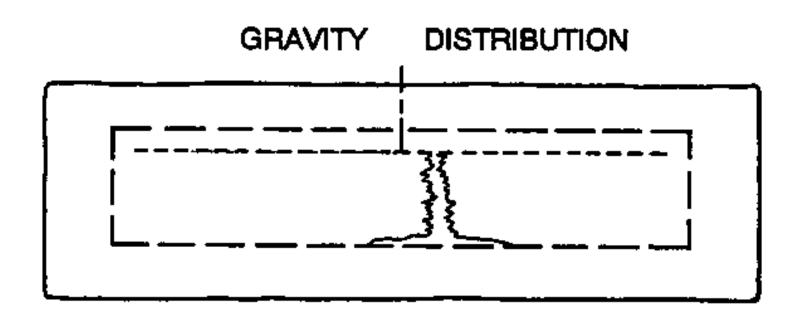
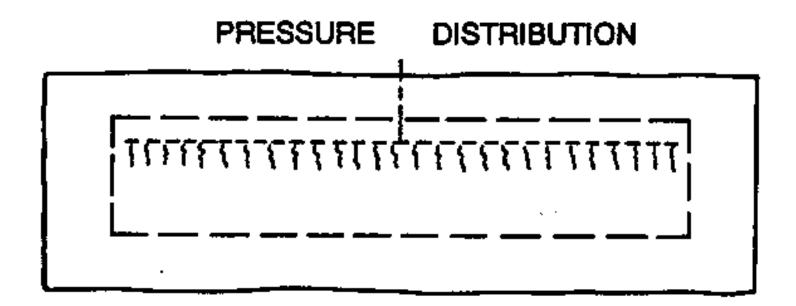


FIGURE 7-31
DISTRIBUTION NETWORK FOR EXAMPLE 7-2



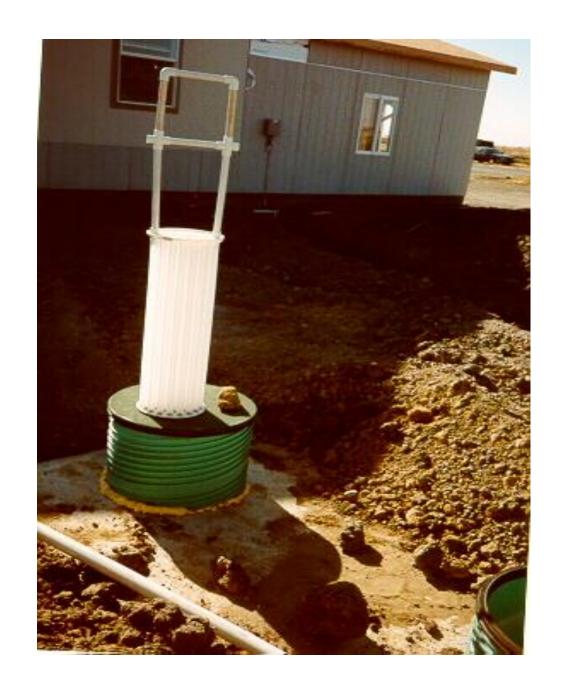


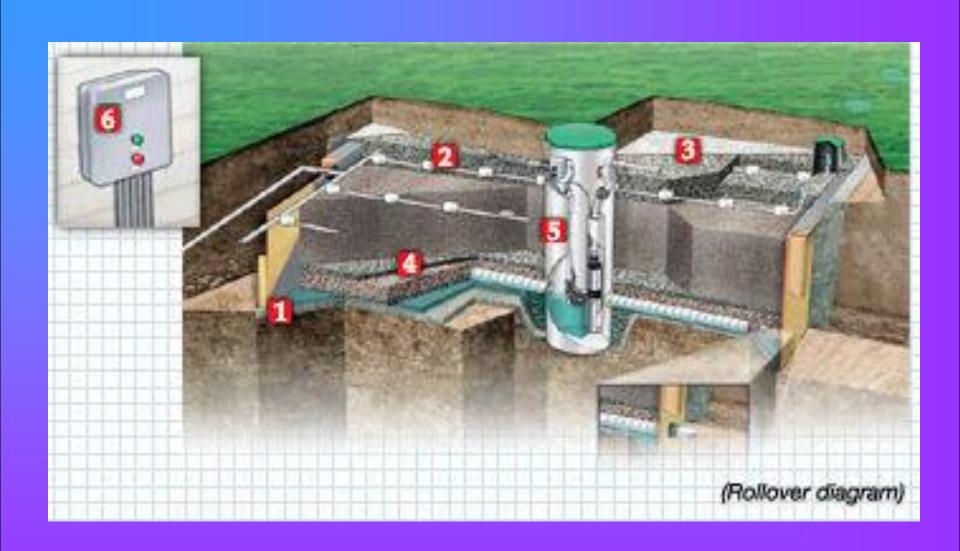












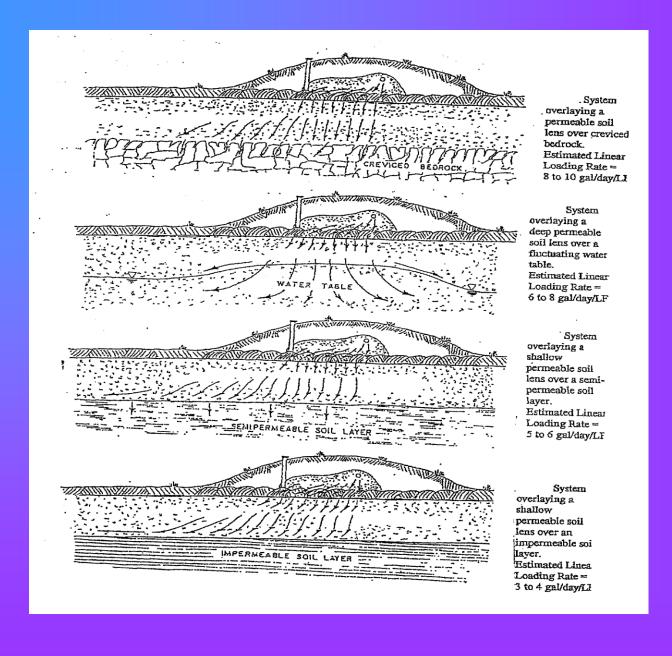


Figure 16: Profile View of Typical Mound System.

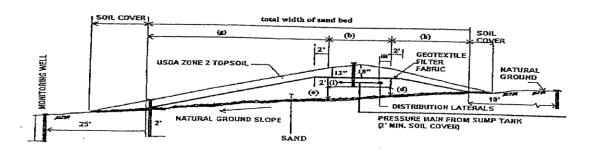
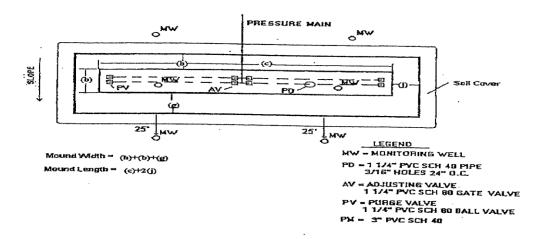


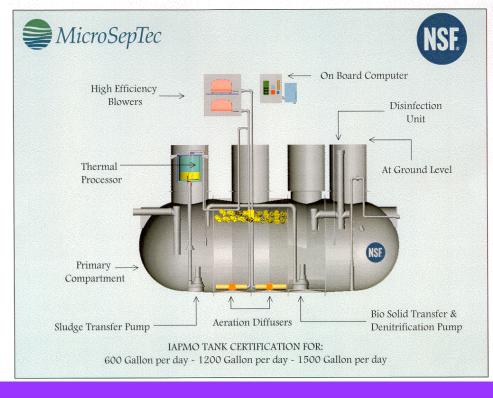
Figure 17: Plan View of Typical Mound System.



Introducing FAST Wastewater Treatment Systems



- FAST® wastewater treatment systems process all the wastewater from single family homes, clusters of homes, small communities or even the high strength wastes from restaurants or commercial facilities.
- (2) Natural separation and settling processes occur in the first compartment of the underground tank.
- (3) Remote blower (the system's only moving part) delivers large volumes of air into the heart of the system, creating vigorous water movement. FAST is oxygen-rich and self-cleaning.
- Proven, reliable FAST treatment module provides the perfect environment for "friendly bacteria" to grow and multiply. FAST consistently processes and removes more than 95% of common impurities. Special patented technology allows exceptional Total Nitrogen reductions (including nitrates) of more than 70%.
- (5) Clear, odorless treated water is ready for standard or innovative dispersal.



LIQUID WASTE

AFTER INSTALLATION

Operation and Maintenance

EVEN WITH PROPER SITING, DESIGN, AND CONSTRUCTION, A SYSTEM WILL HAVE A SHORTENED LIFESPAN IF NOT PROPERLY OPERATED OR MAINTAINED.