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

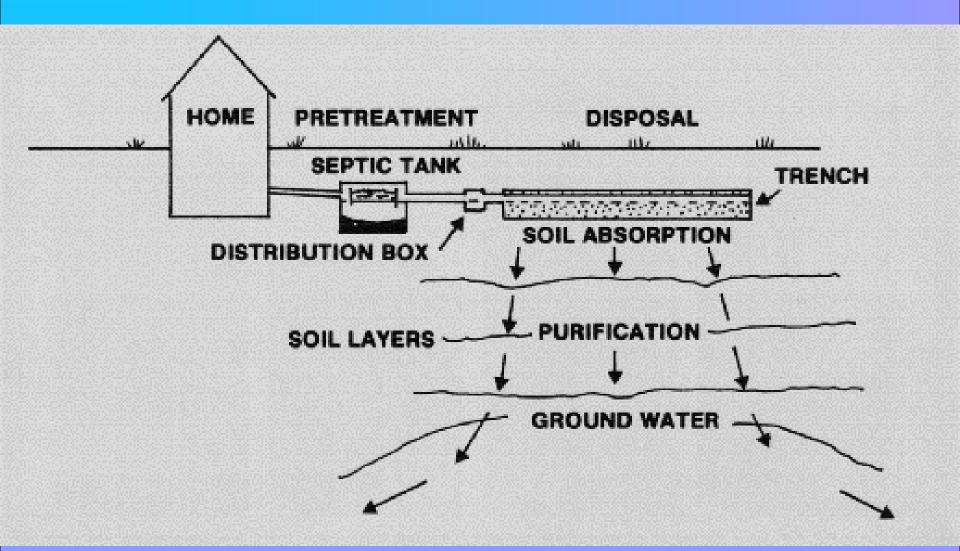
• TREAT SEWAGE SO THAT IT IS MADE HARMLESS.

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

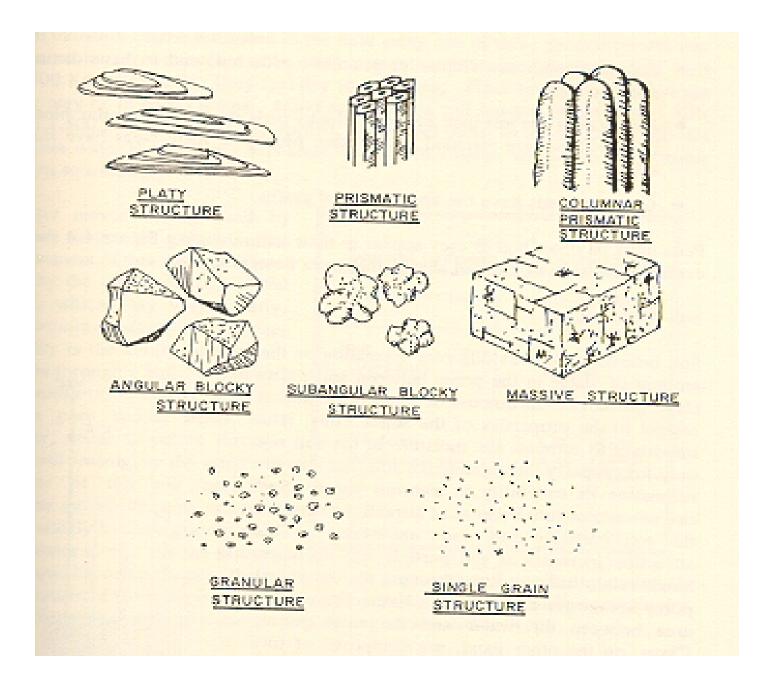
WITHOUT THOROUGH SITE EVALUATION TO DETERMINE THE BEST LOCATION AND DESIGN OF THE SEPTIC SYSTEM EVEN A WELL CONSTRUCTED AND PROPERLY USED SYSTEM MAY PREMATURELY FAIL.

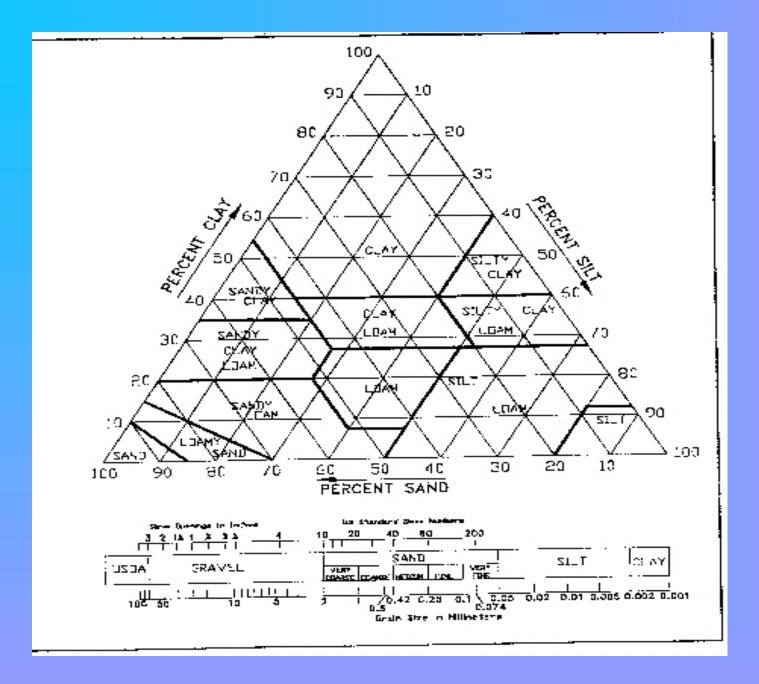
> ON SITE REVIEW SOIL PROFILE EVALUATION HYDROMETER TEST PERCOLATION TEST

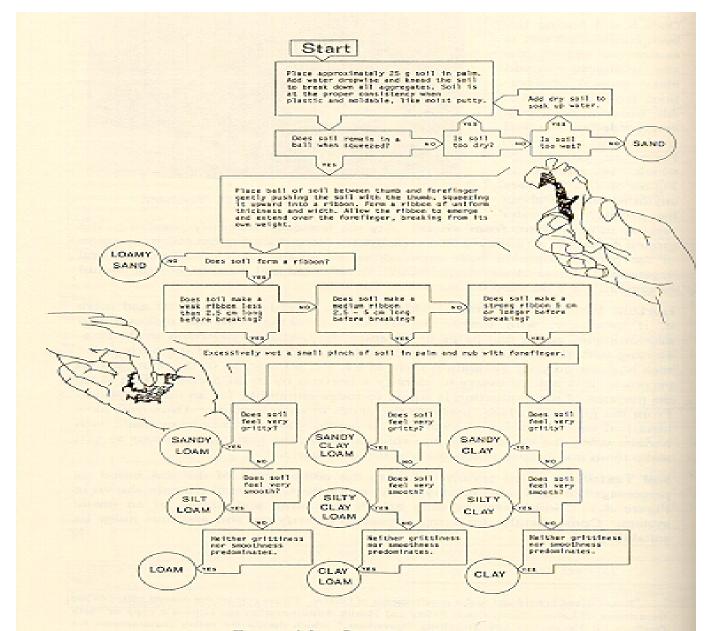




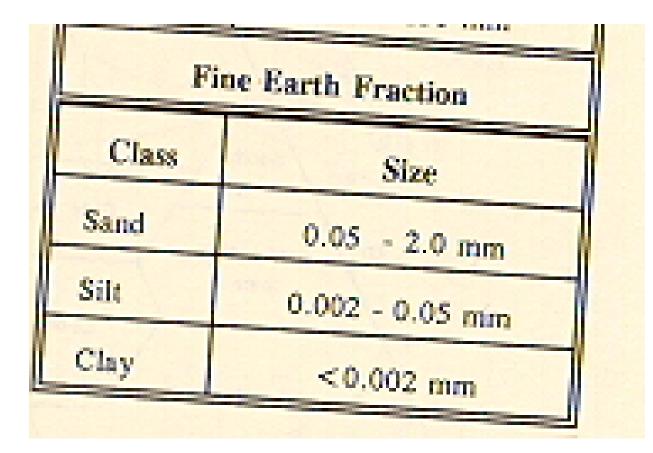


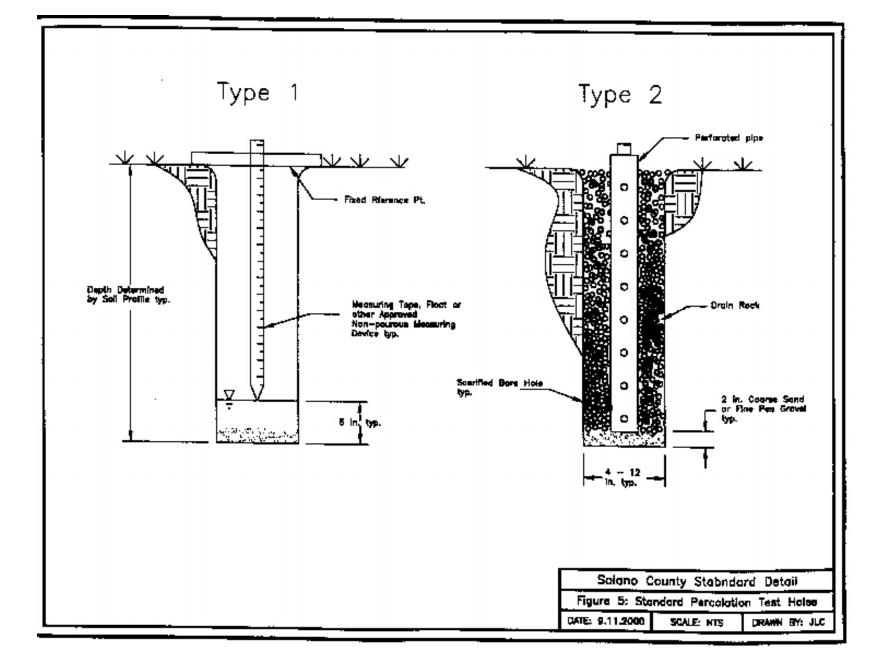










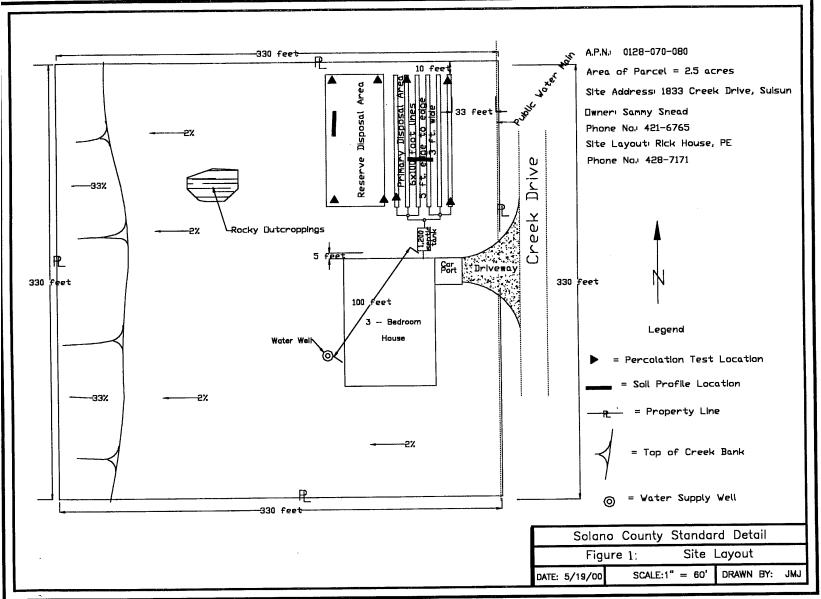


# LIQUID WASTE STEPS TO INSTALLING A SEPTIC SYSTEM

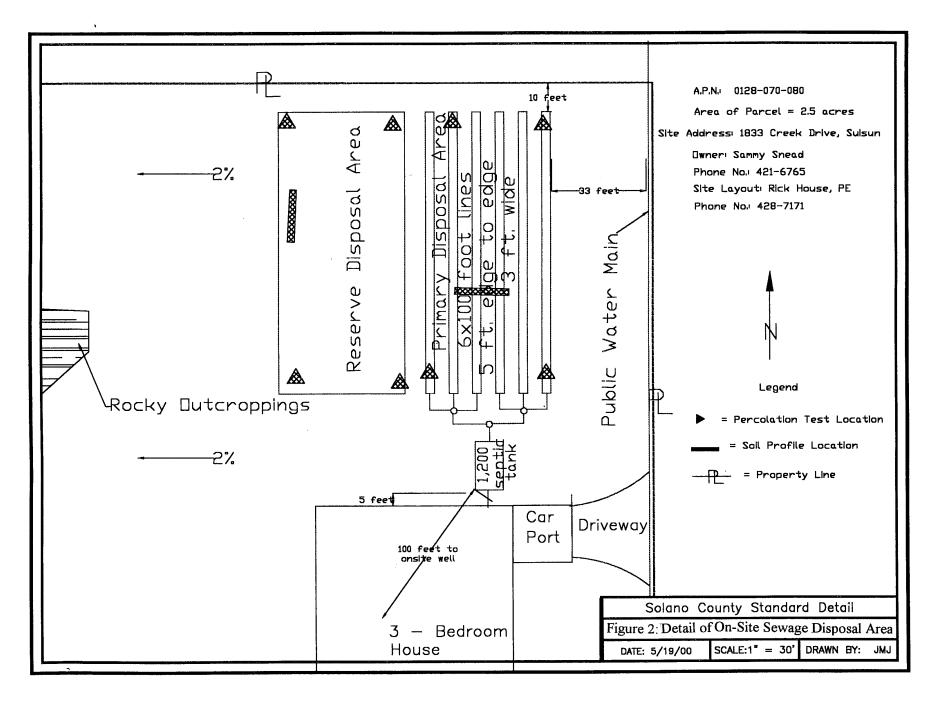
### SITE EVALUATION

#### 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.



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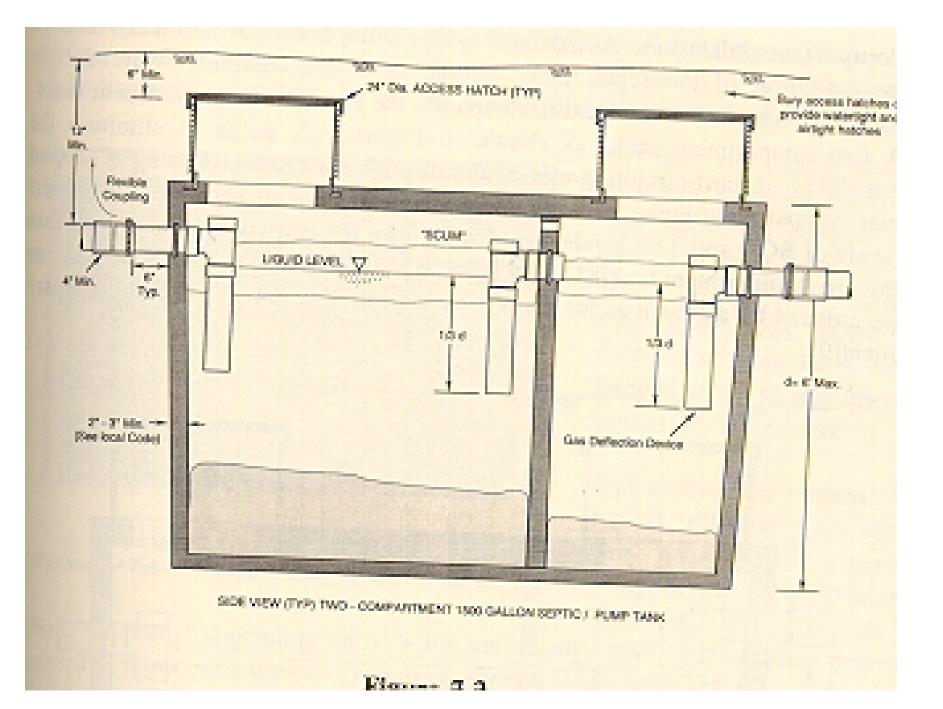
# LIQUID WASTE STEPS TO INSTALLING A SEPTIC SYSTEM

## SITE EVALUATION

PLAN REVIEW

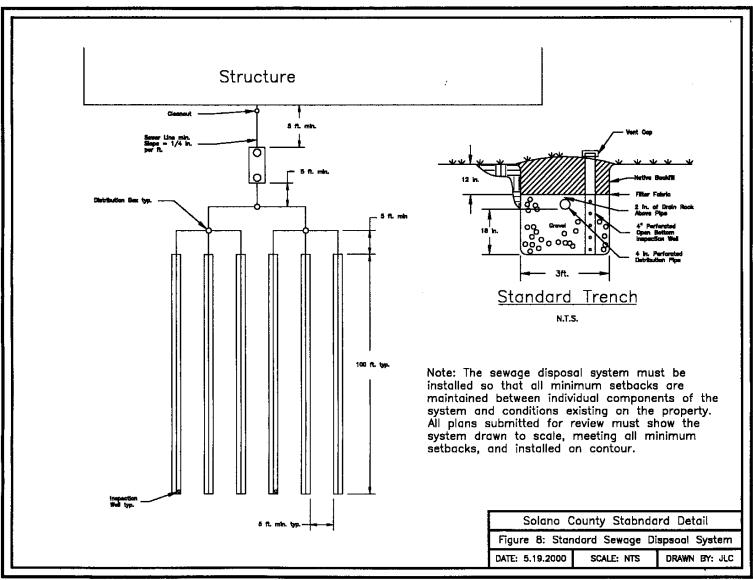
#### CONSTRUCTION

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.

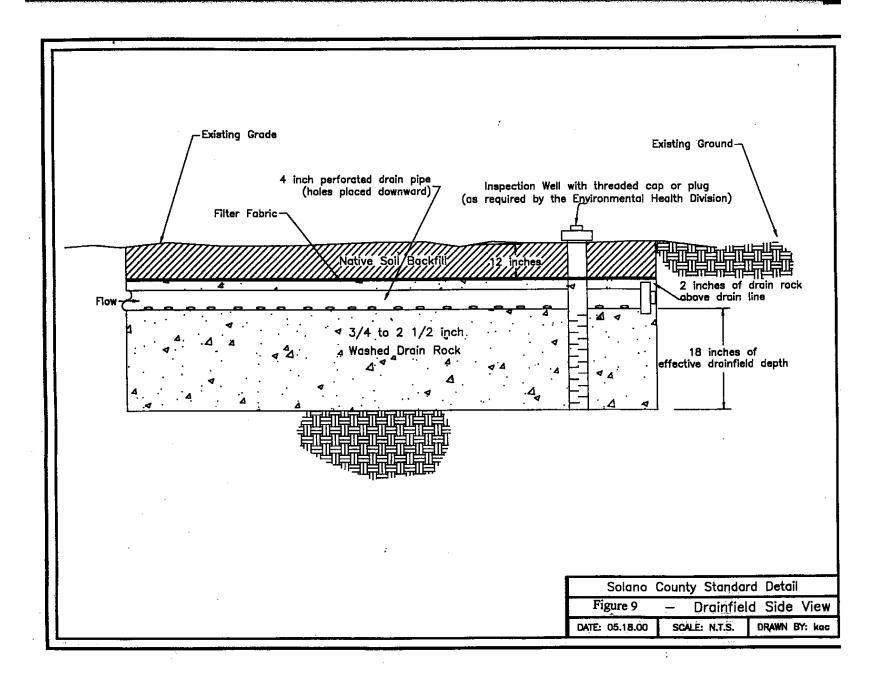






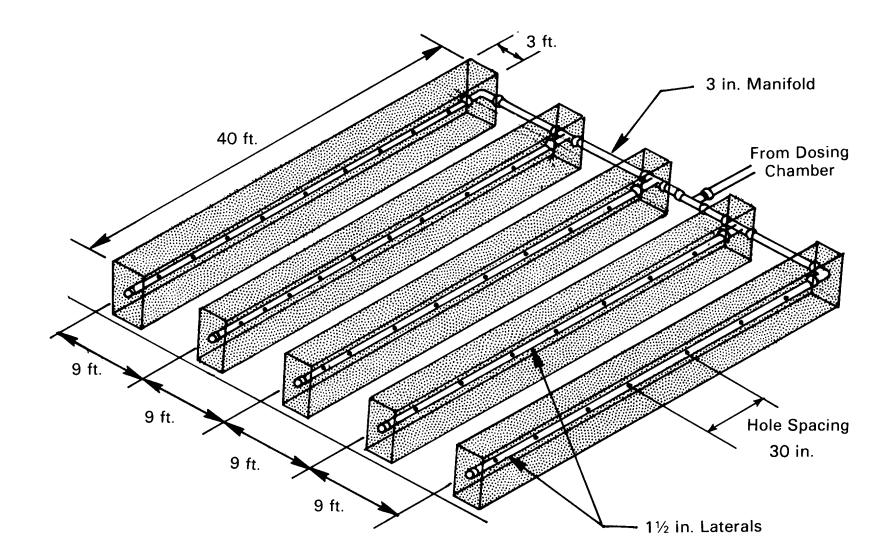


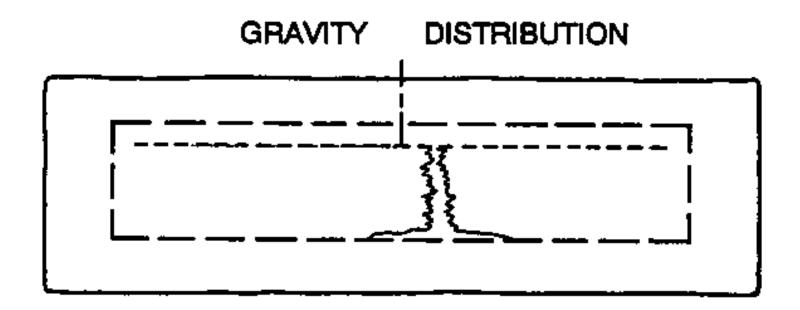
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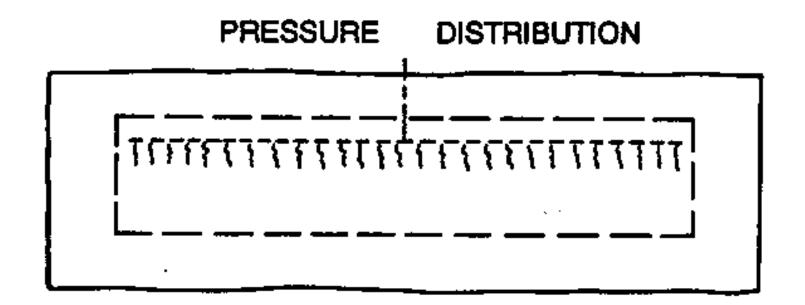


#### FIGURE 7-31

#### DISTRIBUTION NETWORK FOR EXAMPLE 7-2





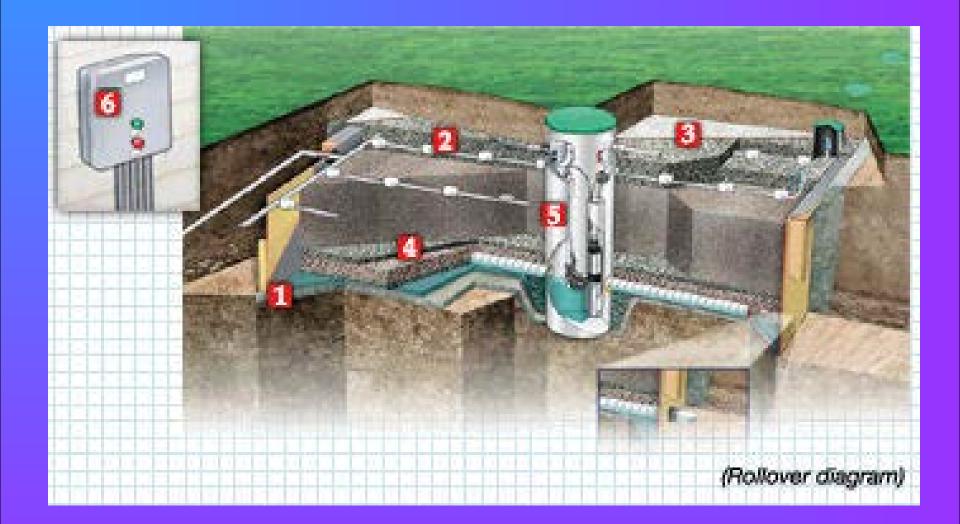


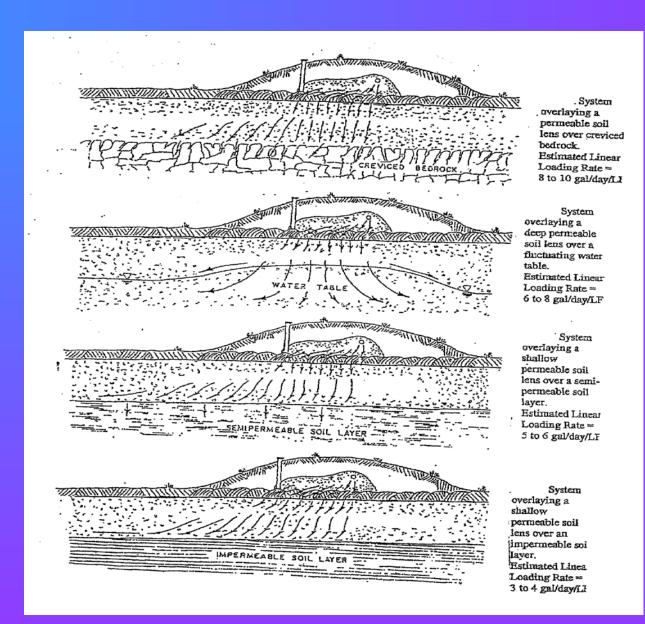












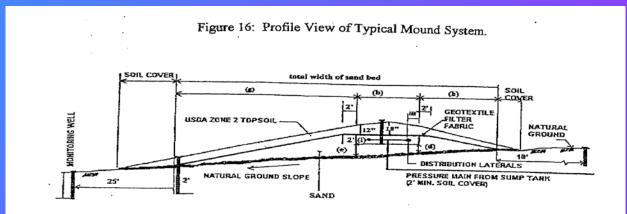
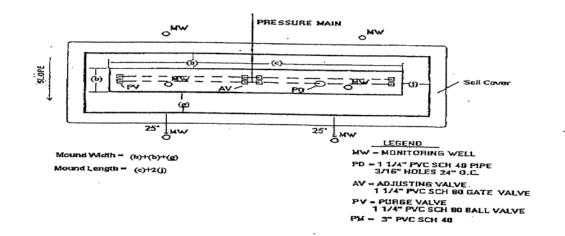


Figure 17: Plan View of Typical Mound System.

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#### Introducing FAST. Wastewater Treatment Systems

You won't see, hear or smell it working.

1

FAST<sup>®</sup> 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.

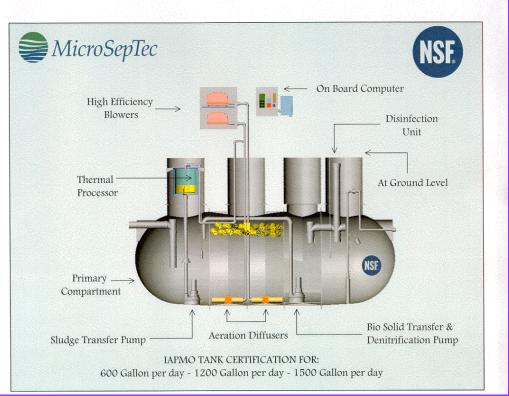
2

- 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

(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.