



Minnesota Pollution Control Agency

520 Lafayette Road North
St. Paul, MN 55155-4194

Compliance Inspection Form
Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms - additional local requirements may also apply.

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

For local tracking purposes:

System Status

System status on date (mm/dd/yyyy): 1/11/2018

[X] Compliant - Certificate of Compliance

(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

[ ] Noncompliant - Notice of Noncompliance

(See Upgrade Requirements on page 3)

Reason(s) for noncompliance (check all applicable)

- [ ] Impact on Public Health (Compliance Component #1) - Imminent threat to public health and safety
[ ] Other Compliance Conditions (Compliance Component #3) - Imminent threat to public health and safety
[ ] Tank Integrity (Compliance Component #2) - Failing to protect groundwater
[ ] Other Compliance Conditions (Compliance Component #3) - Failing to protect groundwater
[ ] Soil Separation (Compliance Component #4) - Failing to protect groundwater
[ ] Operating permit/monitoring plan requirements (Compliance Component #5) - Noncompliant

Property Information

Parcel ID# or Sec/Twp/Range: 31.028.21.11.0005

Property address: 5010 Woodlane Dr, Woodbury, MN

Reason for inspection: selling

Property owner: Gary Schlomka

Owner's phone:

Owner's representative: Larry Schlomka

Representative phone:

Local regulatory authority: Washington County

Regulatory authority phone:

Brief system description: 1,500 gal Septic tank and 600 sqft drainfield

Comments or recommendations:

RECEIVED

JAN 24 2018

PUBLIC HEALTH

Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name: Gale Kespohl

Certification number: 2892

Business name: Pine Septic Design & Inspection, Inc.

License number: 1654

Inspector signature: Gale Kespohl

Phone number: 320-384-7911

Necessary or Locally Required Attachments

- [X] Soil boring logs [X] System/As-built drawing [ ] Forms per local ordinance
[X] Other information (list): Original design

**1. Impact on Public Health – Compliance component #1 of 5**

**Compliance criteria:**

System discharge sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharge sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System cause sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.**

Comments/Explanation:

**Verification method(s):**

- Searched for surface outlet
- Searched for seeping in yard/backup in home
- Excessive ponding in soil system/D-boxes
- Homeowner testimony (See Comments/Explanation)
- "Black soil" above soil dispersal system
- System requires "emergency" pumping
- Performed dye test
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

**2. Tank Integrity – Compliance component #2 of 5**

**Compliance criteria:**

System consists of a seepage pit, cesspool, drywell, or leaching pit. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, which sewage tank(s) leaks:	

**Any "yes" answer above indicates the system is Failing to Protect Groundwater.**

Comments/Explanation:

Septic tanks are water tight, not water proof. At certain times of the year, especially in Spring or after heavy rains, it is possible for surface water to enter the tank.

**Verification method(s):**

- Probed tank(s) bottom
- Examined construction records
- Examined Tank Integrity Form (Attach)
- Observed liquid level below operating depth
- Examined empty (pumped) tanks(s)
- Probed outside tank(s) for "black soil"
- Unable to verify (See Comments/Explanation)
- Other methods not listed (See Comments/Explanation)

**3. Other Compliance Conditions – Compliance component #3 of 5**

- a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound.  Yes\*  No  Unknown
- b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety.  Yes\*  No  Unknown  
**\*System is an imminent threat to public health and safety**

Explain:

- c. System is non-protective of ground water for other conditions as determined by inspector  Yes\*  No  
**\*System is failing to protect groundwater**

Explain:

**4. Soil Separation – Compliance component #4 of 5**

Date of installation: 5/28/86  Unknown  
 Shoreland/Wellhead protection/Food Beverage Lodging?  Yes  No

**Compliance criteria:**

For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:  Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:  Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.2350 or 7080.2400 (Advanced Inspector License required)  Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	<input type="checkbox"/> Yes <input type="checkbox"/> No

**Any "no" answer above indicates the system is Failing to Protect Groundwater.**

**Verification method(s):**

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

- Conducted soil observation(s) (Attach boring logs)
- Two previous verifications (Attach boring logs)
- Not applicable (Holding tank(s), no drainfield)
- Unable to verify (See Comments/Explanation)
- Other (See Comments/Explanation)

Comments/Explanation:

**Indicate depths of elevations**

A. Bottom of distribution media	33"
B. Periodically saturated soil/bedrock	> 72"
C. System separation	> 39"
D. Required compliance separation*	36"

\*May be reduced up to 15 percent if allowed by Local Ordinance.

**5. Operating Permit and Nitrogen BMP\* – Compliance component #5 of 5  Not applicable**

Is the system operated under an Operating Permit?  Yes  No If "yes", A below is required

Is the system required to employ a Nitrogen BMP?  Yes  No If "yes", B below is required

BMP=Best Management Practice(s) specified in the system design

**If the answer to both questions is "no", this section does not need to be completed.**

**Compliance criteria**

a. Operating Permit number: _____ Have the Operating Permit requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
b. Is the required nitrogen BMP in place and properly functioning?	<input type="checkbox"/> Yes <input type="checkbox"/> No

**Any "no" answer indicates Noncompliance.**

**Upgrade Requirements (Minn. Stat. § 115.55)** An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

WOODBURY, MINNESOTA  
Tel. 739-5972

Permit Fee.....\$ 15.00  
State Surcharge.\$ 1.50  
Penalty.....\$ 15.00  
TOTAL FEE.....\$ 30.50  
PERMIT NUMBER.... 2707

6/86  
AA

SEWAGE DISPOSAL SYSTEM PERMIT

OWNER: John Simon (Lemke Const) TEL. NO. 739-5394 IM. \_\_\_\_\_ WK. \_\_\_\_\_

ADDRESS: 5010 WOODLANE DRIVE

CONTRACTOR: AAA Pollution Control

MINIMUM SYSTEM REQUIRED: 3 BEDROOMS, PERCOLATION RATE: 28.2 M in/inch

SEPTIC TANK: 1250-1500 GAL. LIQUID CAPACITY DEPTH OF TRENCHES: 33"

DISTRIBUTION BOX: CONCRETE DROP BOXES w/ REMOVABLE COVER

ABSORPTION TRENCH: SQUARE FEET 601 LINEAL FEET 200 WIDTH 3

DEPTH OF ROCK BELOW TILE LINES: 12 INCHES ABOVE TILE: 2 INCHES

MINIMUM COVER: 15 INCHES MAXIMUM COVER: 6" OVERFLOW INCHES

MINIMUM LENGTH OF LINES: 100 FEET

MINIMUM NUMBER OF LINES: 2

MAXIMUM LENGTH OF INDIVIDUAL LINE: 100 FT.

MINIMUM SPACING OF LINES: 7'-6" FT. C TO C

Permittee shall be responsible for the design and construction of the system and shall comply with all applicable codes and ordinances.

Inspection of installation must be accomplished by this office before any portion of system is covered, unless prior approval by inspector is obtained.

SPECIAL CONDITIONS: 1) BOTTOM OF TRENCHES MUST BE LEVEL.

2) SYSTEM DESIGN & PERC TEST BY MIKE SCHNEIDER #546

DATE SYSTEM INSPECTED: 5/28/86

INSTALLATION APPROVED (inspectors signature): J. Brady

COMMENTS: \_\_\_\_\_

**PERMIT:** Permission is hereby granted to the above-named applicant to perform the work described in the application, to the specifications shown under minimum system required. This permit is granted upon express condition that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects to ordinances of Woodbury, Minnesota. This permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced within six (6) months.

APPROVED: (inspectors signature) \_\_\_\_\_ DATE: 5/27/86

White copy - office, Yellow copy - inspector, Pink copy - applicant

612/459-0766



# PERCOLATION REPORT

WISE RESOURCE MANAGEMENT DOESN'T COST.....IT PAYS

John W Simon  
7709 Cayenne Plaza West  
Woodbury MN 55125

5010 WOODLANE DRIVE

739 5384

## SOIL TESTING FOR THE DESIGN OF ABSORPTION SYSTEMS

Location: new site.....SW $\frac{1}{4}$  of SE $\frac{1}{4}$  Sec 30 T28 R21  
Woodbury MN  
(directly North of 5018 Woodlane Dr)

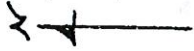
9.8 Acres...

House ....2200 Sq. ft.....3 Bedroom

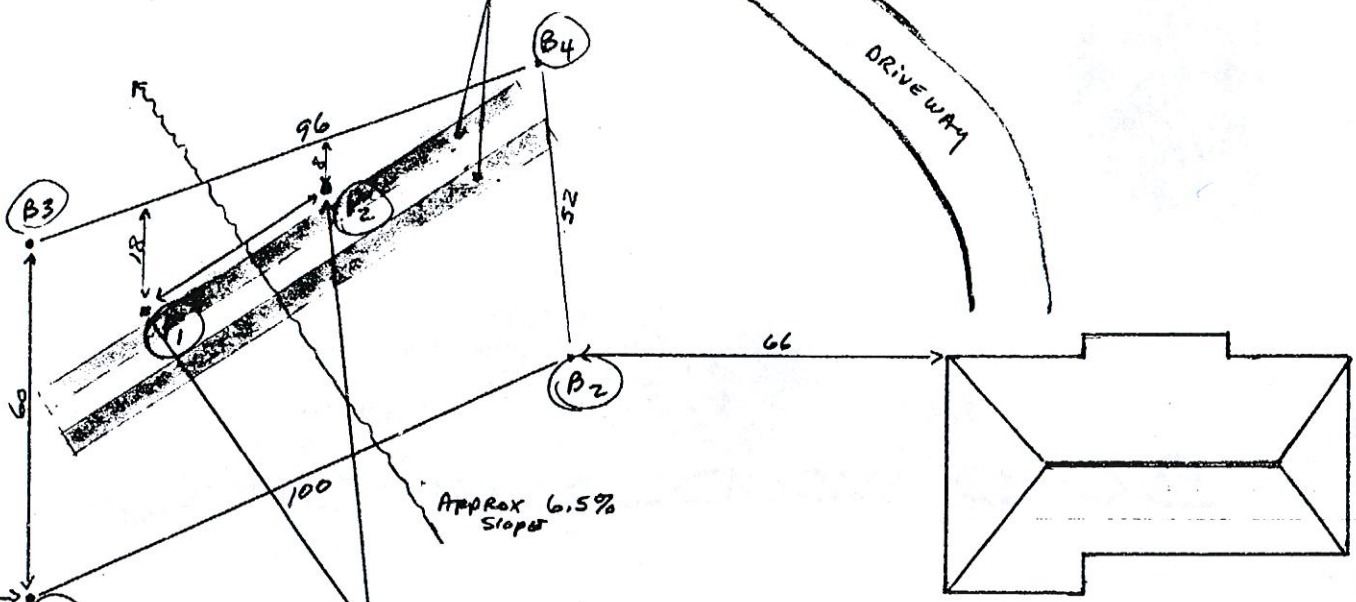
Mike Schneider  
certification #00546

System subject to approval by local officials

WOODLAND DRIVE



POSSIBLE TRENCH LOCATION



GROUND LEVEL AT P1 + P2 IS APPROXIMATELY 3' BELOW BASEMENT FLOOR LEVEL

1" = 30'

- BORING
- PERCOLATION
- ← SLOPE + DIRECTION

## INDIVIDUAL SEWAGE TREATMENT SYSTEM WORKSHEET

3BR 2200 SQ ft

FLOW

A. Estimated 450 gpd  
(See D-7 or I-3,4,5)  
or measured \_\_\_\_\_ gpd

SEPTIC TANK VOLUME

B. 1250 - 1500 gallons  
(See C-3 or C-5)

SOILS

C. Depth to restricting layer = \_\_\_\_\_ feet  
D. Maximum depth of system  
C - 3 ft = \_\_\_\_\_ feet  
E. Percolation rate 23.3 MPI  
F. Soil area 1.67 sq ft/gpd  
G. Land slope 6.5 %

SOIL TREATMENT AREA

H. For beds and trenches with 6 inches of rock below the distribution pipe:

$$A \times F = \_ \times \_ = \_ \text{ sq ft}$$

\_\_\_\_\_ of bottom area

I. For trenches with 12 inches of rock below the distribution pipe:

$$A \times F \times 0.8 = 450 \times 1.67 \times 0.8 = 601.2 \text{ sq ft of bottom area}$$

J. For trenches with 18 inches of rock below the distribution pipe:

$$A \times F \times 0.66 = \_ \times \_ \times 0.66 = \_ \text{ sq ft of bottom area}$$

K. For trenches with 24 inches of rock below the distribution pipe:

$$A \times F \times 0.6 = \_ \times \_ \times 0.6 = \_ \text{ sq ft of bottom area}$$

ROCK VOLUME IN CU-FT

L. Rock depth below distribution pipe plus 0.5 foot times bottom area:  
 $L = (\_ + 0.5) \times 601.2 = 901.8 \text{ cu ft}$

ROCK VOLUME IN CU YDS

M. Volume in cu ft divided by 27  
 $L \div 27 = \text{cu yds}$   
 $901.8 \div 27 = 33.4 \text{ cu yds}$

ROCK WEIGHT

N. Cubic yards times 1.4 = tons  
 $M \times 1.4 = \text{tons}$   
 $33.4 \times 1.4 = 46.7 \text{ tons}$

DISTRIBUTION

(Check one based on slope)

\_\_\_\_\_ Bed (< 6% slope)

\_\_\_\_\_ Trenches

Drop boxes (any slope)

\_\_\_\_\_ Distribution box (level to slightly sloping)

\_\_\_\_\_ Closed - continuous (level)

TRENCH LENGTH

O. Select trench width = 3 ft

P. Divide bottom area by trench width:

(H, I, J, or K)  $\div$  O = lineal feet

$$601.2 \div 3 = 200.4 \text{ lineal feet}$$

LAWN AREA

Q. Select trench spacing, center to center = 7.5 feet

R. Multiply trench spacing by lineal feet

$$Q \times P = \text{sq ft of lawn area}$$

$$7.5 \times 200 = 1503 \text{ sq ft}$$

LAYOUT (use other side)

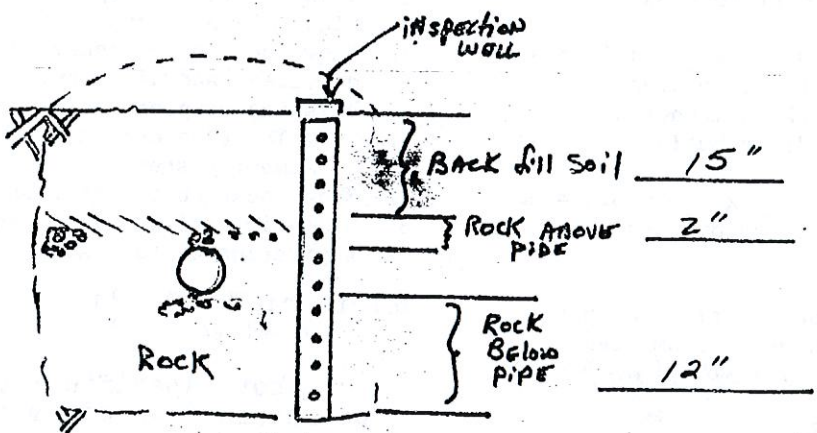
1. Select an appropriate scale; one square = 5 feet
2. Show pertinent property boundaries, right-of-way, easements.
3. Show location of house, garage, driveway, and all other improvements, existing or proposed.
4. Show location and layout of sewage treatment system.
5. Show location of water supply well.
6. Dimension all set backs and separation distances.

Referenc: P.C.A. Rules  
6 MCAR §4.8040

The above specifications should be regarded as minimum standards

Proposed System Design based on P.C.A. Rules 6 MCAR §4.8040  
Individual Sewage Treatment System Standards

Number of bedrooms 3  
 Tank size 1250 - 1500 GALLONS  
 Number of lines 2 Length of lines 100 ft.  
 Spacing of lines: 7.5' ON CENTER  
 Depth of trenches 33" Width of trenches 3'  
 Depth of rock below tile 12 Depth of rock above tile 2  
 Depth of earth cover over rock 15"  
 Special conditions \_\_\_\_\_  
 Type of distribution box Drop Box



Trench must be flat along length and relatively level from end to end



PERCOLATION TEST

Location Simons

Test hole number A#1

Depth to bottom of hole 33 inches. Diameter of hole 6 inches.

Depth, inches 0-84 Soil texture BRN Silt loam

84-244 Tan clay loam + small rocks

244-334 Tan medium sand + gravel

+ Approx 25% clay

Percolation test by MIKE SCHMIDTKE Certification No 0556

Time	Time Interval, minutes	Measure-ment, inches	Drop in water level, inches	Percola-tion rate, minutes per inch	Remarks
2:05		14 3/8			Initial fill H <sub>2</sub> O
2:35	30	16 1/8	1 1/4	24.0	
2:36		14 3/8			Refill
3:06	30	16	1 1/8	26.6	
3:07		15			Refill
3:37	30	16 1/8	1 1/8	26.6	
3:38		14 3/8			Refill
4:06	30	15 1/8	1 1/2	28.2	
4:09		15			Refill
4:39	30	16 1/2	1 1/2	26.2	
4:40		15			Refill
5:10	30	16 1/8	1 1/8	26.6	

Percolation rate = 28.2 minutes per inch.

PERCOLATION TEST

Location

Test hole number A#2

Depth to bottom of hole 33 inches. Diameter of hole 6 inches.

Depth, inches 0-60 Soil texture BRN silt loam

60-244 Tan clay loam

244-334 Tan fine-medium sand

+ gravel + very little clay content.

Date of test 4-8-86 Saturday 4-9-86 Percolation

Time	Time Interval, minutes	Measure-ment, inches	Drop in water level, inches	Percola-tion rate, minutes per inch	Remarks
2:08		14			Initial fill H <sub>2</sub> O
2:38	30	15 3/8	1 3/8	16.0	
2:39		14			Refill
3:09	30	16	2	15.0	
3:10		14			Refill
3:40	30	15 3/4	1 3/4	17.1	
3:41		14			Refill
4:11	30	15 1/8	1 5/8	18.4	
4:12		14			Refill
4:42	30	15 5/8	1 5/8	18.4	
4:43		14			Refill
5:13	30	15 3/8	1 5/8	18.4	

Percolation rate = 18.4 minutes per inch.

**-SOIL BORINGS-**

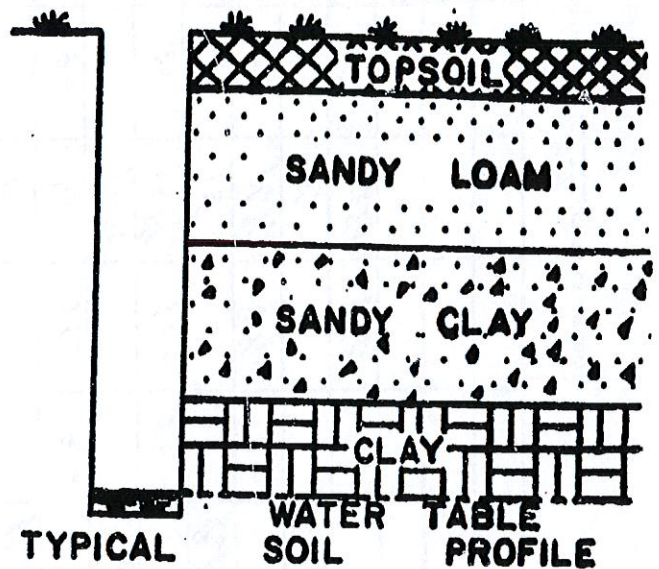
Simad

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



**LOG OF SOIL BORING**

BORING NO.     /    

Depth in Feet	Soil Description
<u>    </u>	<u>    </u>
<u>1</u>	<u>8" BROWN silt LOAM</u>
<u>2</u>	<u>TAN CLAY LOAM + SMALL ROCKS</u>
<u>3</u>	<u>2 1/2 3: TAN SAND WITH SMALL PERCENTAGE OF CLAY</u>
<u>4</u>	<u>SAME AS ABOVE + SOME GRAVEL</u>
<u>5</u>	<u>5: </u>
<u>6</u>	<u>TAN CLAY WITH SMALL AMOUNT OF SAND</u>
<u>7</u>	<u>TAN FINE SAND</u>
<u>8</u>	<u>8: </u>

**-SOIL BORINGS-**

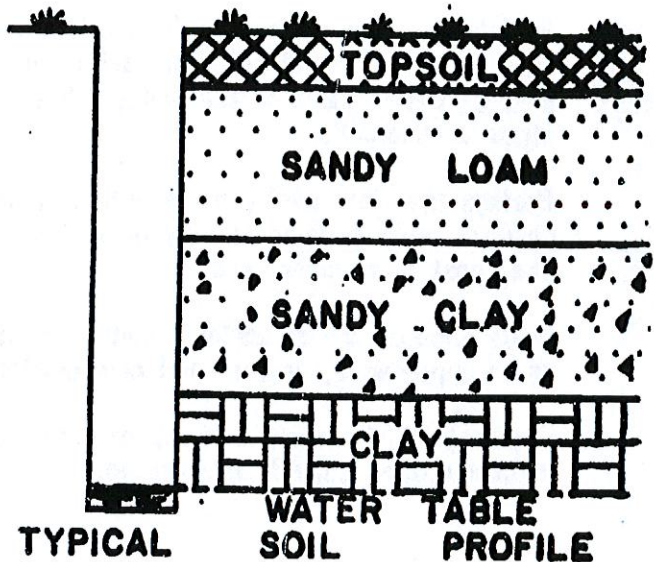
Simon

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



**LOG OF SOIL BORING**

BORING NO. 2

Depth in Feet	Soil Description
1	BROWN Silt Loam
2	
3	TAN Clay Loam with some GRAVEL
4	
5	TAN SAND APPROX 80% CLAY content
6	
7	TAN CLAY
8	

**-SOIL BORINGS-**

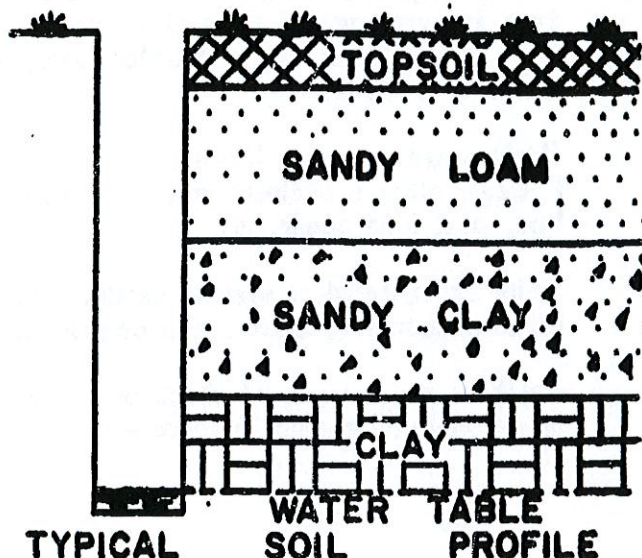
5.10.62

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.



**LOG OF SOIL BORING**

BORING NO. 3

Depth in Feet	Soil Description
6"	BROWN silt LOAM
1	TAN Clay LOAM + small ROCKS
2	- SAME AS ABOVE WITH GRAVEL
3	- TAN SAND + clay + GRAVEL Approx 1/2 + 1/2
4	
5	- TAN SAND + small percentage of clay
6	
7	- TAN SAND + GRAVEL
8	

**-SOIL BORINGS-**

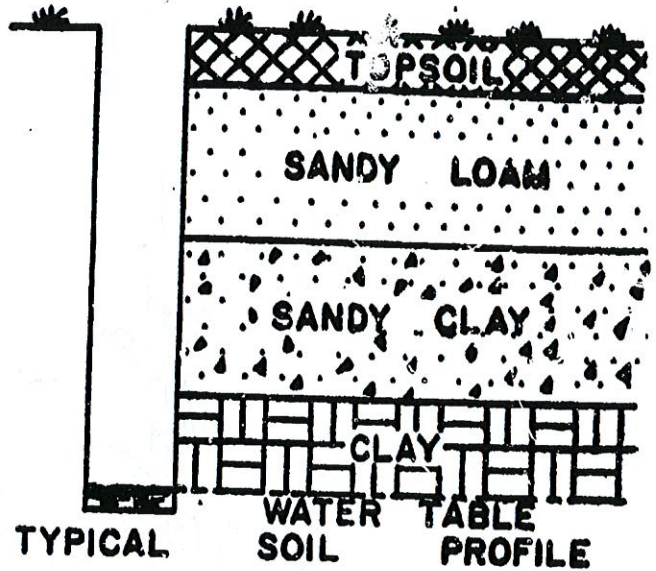
Simon

Soil borings are made in order to determine the type and structure of soils at various depths as well as the location of the water table, impervious strata or bedrock.

Borings are most easily made with a hand auger, however other expedients may be utilized - back hoe, post hole auger, etc.

Soils encountered at various depths should be listed as to appearance, texture and composition.

Depth at which water, bedrock or heavy clay layer is encountered should be recorded.

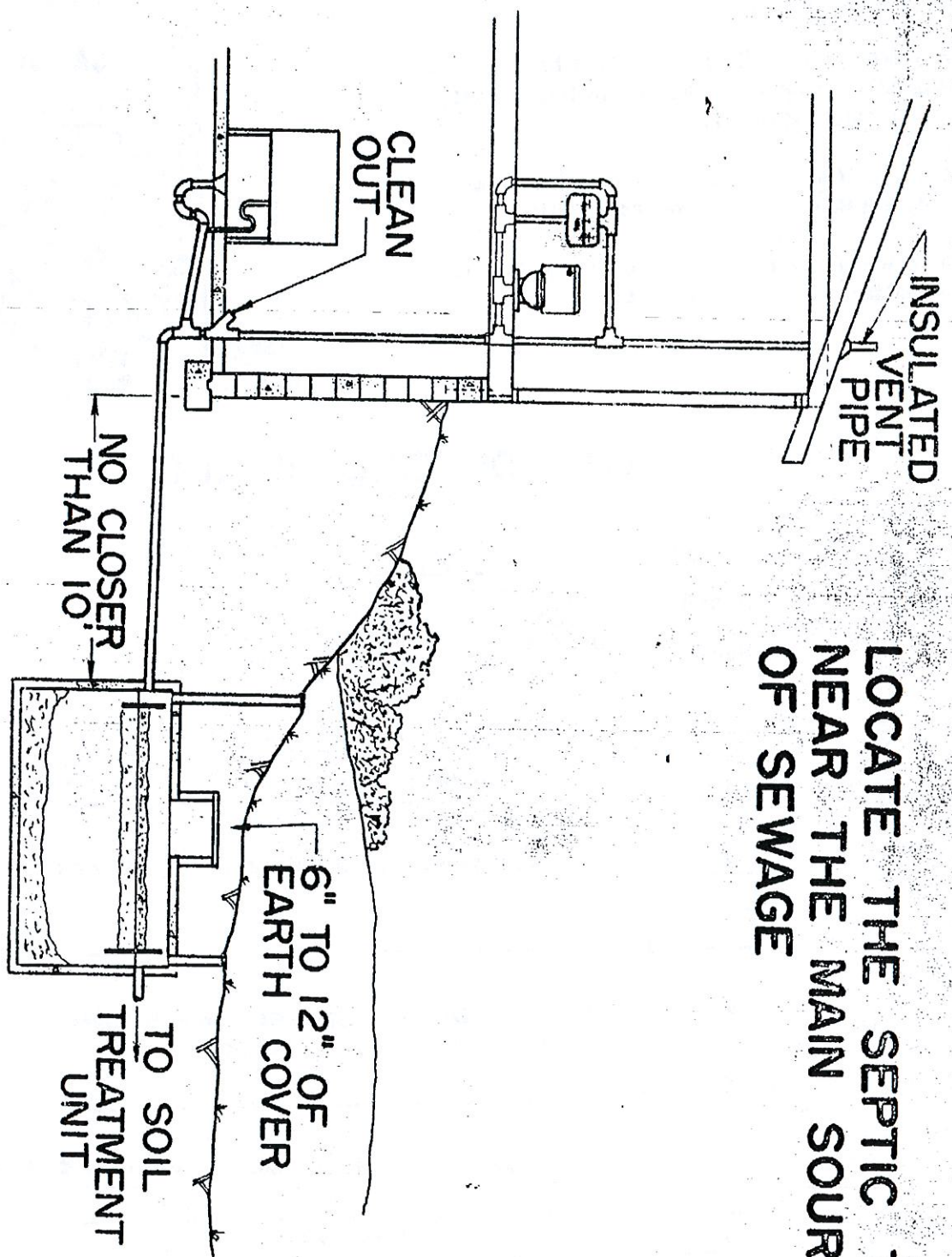


**LOG OF SOIL BORING**

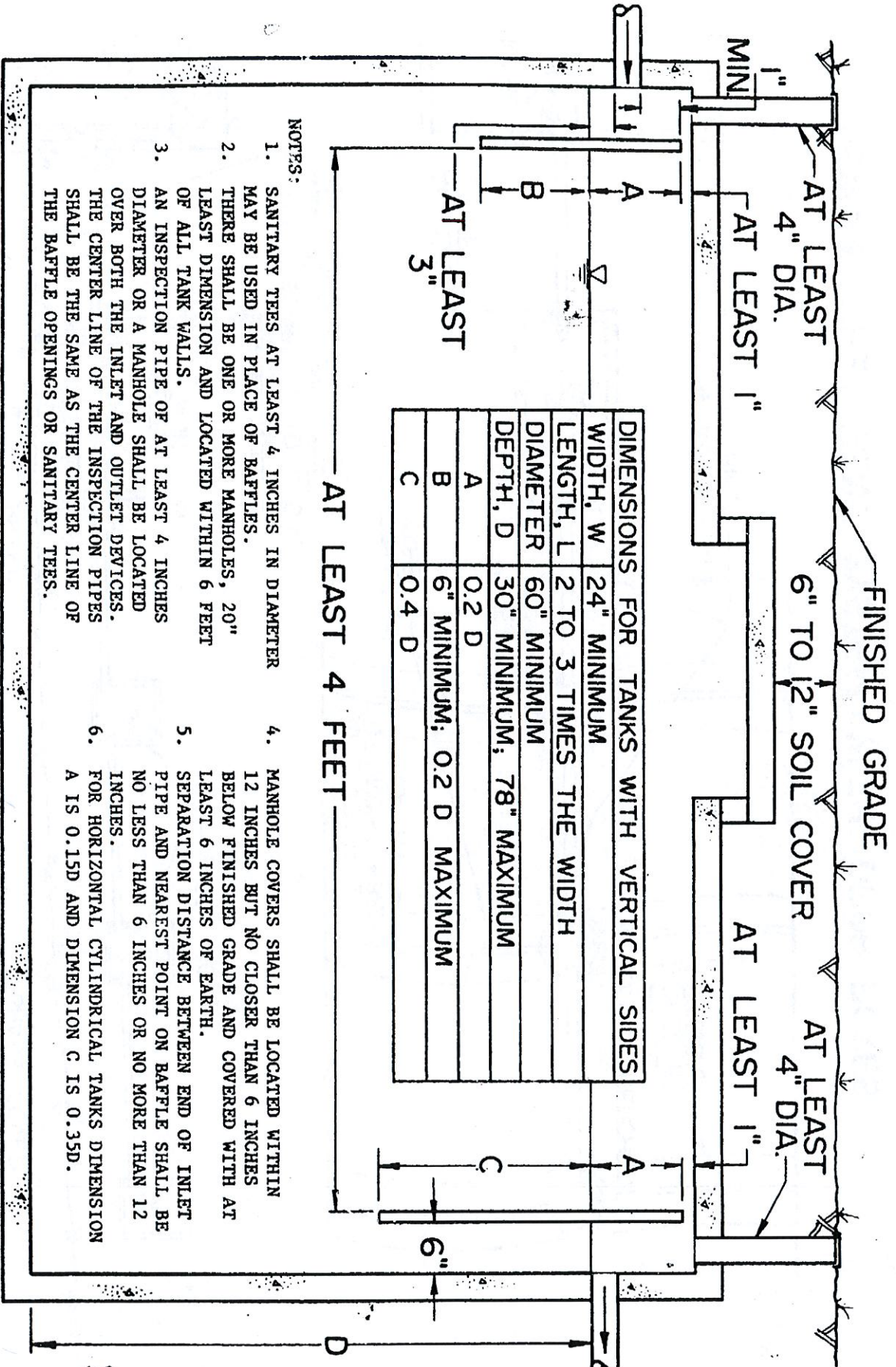
BORING NO. 4

Depth in Feet	Soil Description
—	—
—	3" <u>BROWN silt Loam</u>
<u>1</u>	<u>1' TAN CLAY LOAM with small rocks</u>
—	—
<u>2</u>	<u>TAN SAND + GRAVEL with very little clay</u>
—	—
<u>3</u>	3" —
—	—
<u>4</u>	<u>TAN SAND + Approx 30% clay</u>
—	<u>VERY Rocky</u>
<u>5</u>	5" —
—	—
<u>6</u>	<u>SAME AS ABOVE with some GRAVEL</u>
—	6" —
<u>7</u>	<u>OBSTRUCTION</u>
—	—
<u>8</u>	—

**LOCATE THE SEPTIC TANK  
NEAR THE MAIN SOURCE  
OF SEWAGE**

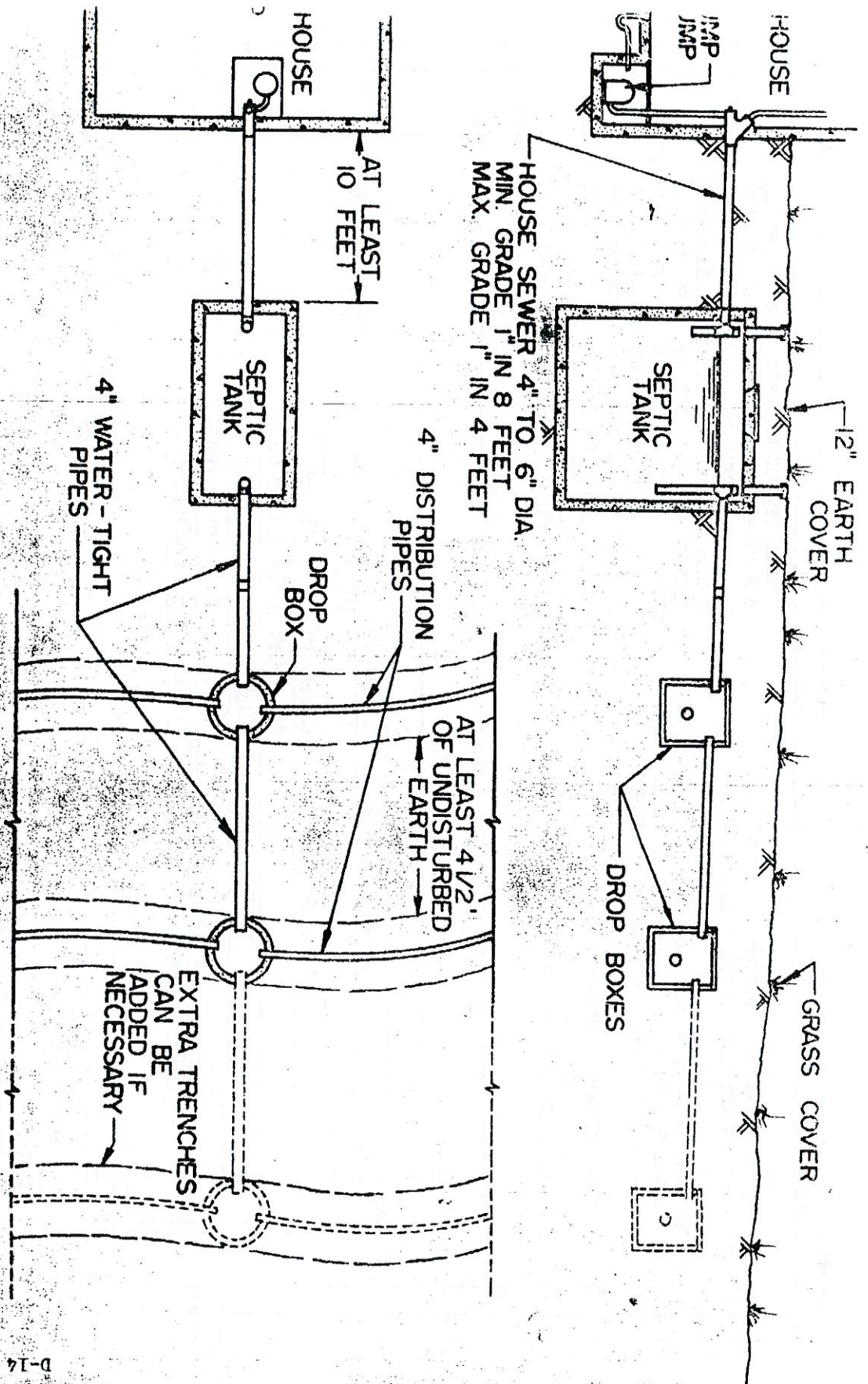


# VERTICAL SIDEWALL SEPTIC TANK



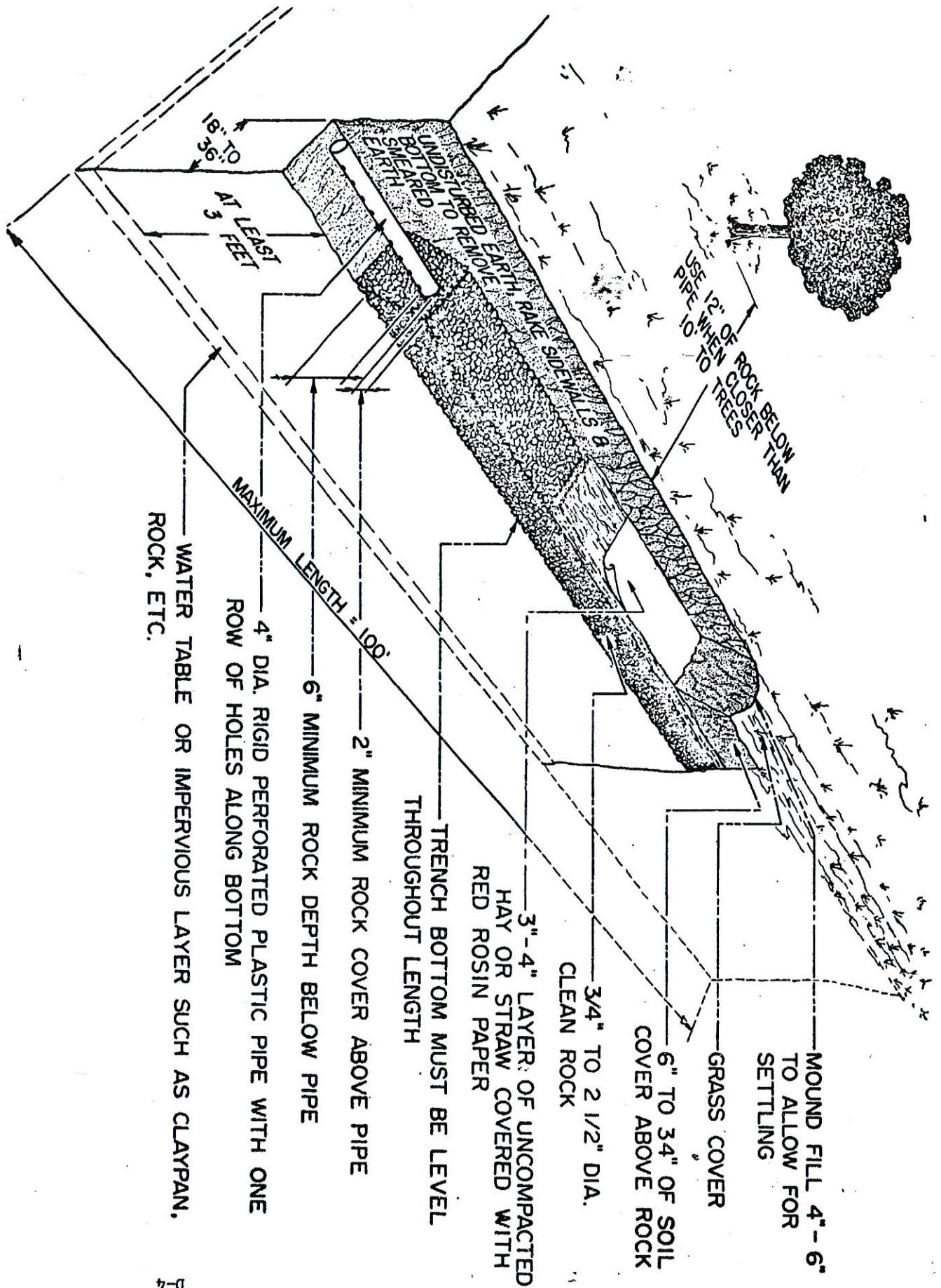
**NOTES:**

1. SANITARY TEES AT LEAST 4 INCHES IN DIAMETER MAY BE USED IN PLACE OF BAFFLES.
2. THERE SHALL BE ONE OR MORE MANHOLES, 20" LEAST DIMENSION AND LOCATED WITHIN 6 FEET OF ALL TANK WALLS.
3. AN INSPECTION PIPE OF AT LEAST 4 INCHES DIAMETER OR A MANHOLE SHALL BE LOCATED OVER BOTH THE INLET AND OUTLET DEVICES. THE CENTER LINE OF THE INSPECTION PIPES SHALL BE THE SAME AS THE CENTER LINE OF THE BAFFLE OPENINGS OR SANITARY TEES.
4. MANHOLE COVERS SHALL BE LOCATED WITHIN 12 INCHES BUT NO CLOSER THAN 6 INCHES BELOW FINISHED GRADE AND COVERED WITH AT LEAST 6 INCHES OF EARTH.
5. SEPARATION DISTANCE BETWEEN END OF INLET PIPE AND NEAREST POINT ON BAFFLE SHALL BE NO LESS THAN 6 INCHES OR NO MORE THAN 12 INCHES.
6. FOR HORIZONTAL CYLINDRICAL TANKS DIMENSION A IS 0.15D AND DIMENSION C IS 0.35D.



**SEWAGE TREATMENT SYSTEM WITH DROP BOXES**





WATER TABLE OR IMPERVIOUS LAYER SUCH AS CLAYPAN, ROCK, ETC.

4" DIA. RIGID PERFORATED PLASTIC PIPE WITH ONE ROW OF HOLES ALONG BOTTOM

6" MINIMUM ROCK DEPTH BELOW PIPE

2" MINIMUM ROCK COVER ABOVE PIPE

TRENCH BOTTOM MUST BE LEVEL THROUGHOUT LENGTH

3"-4" LAYER OF UNCOMPACTED HAY OR STRAW COVERED WITH RED ROSIN PAPER

3/4" TO 2 1/2" DIA. CLEAN ROCK

6" TO 34" OF SOIL COVER ABOVE ROCK

GRASS COVER

MOUND FILL 4"-6" TO ALLOW FOR SETTLING

MAXIMUM LENGTH = 100'

AT LEAST 3 FEET

18" TO 36"

SEE FIG. 12-10  
DO NOT PLACE ROCK BELOW TREES  
LARGER THAN

