

Primary Barcode:



Property Owner:



Street Address:



Zip Code:



Subdivision:



Lot Number:



Nearest Town:





TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
APPLICATION FOR GROUND WATER PROTECTION SERVICES

| 1. SERVICE REQUESTED: (check service)                                 | APPLICANT<br>COMPLETE QUESTIONS: | FEES DUE         | PTBMIS CODES V689<br>Code Supp/Code |
|-----------------------------------------------------------------------|----------------------------------|------------------|-------------------------------------|
| <input checked="" type="checkbox"/> Septic System Construction Permit |                                  |                  |                                     |
| _____ Dwelling.....                                                   | 2, 3, 4, 7, 8, 9                 | \$ <u>200.00</u> | 78064 Yes                           |
| _____ Commercial: gpd.....                                            | 2, 3, 4, 7, 8, 9                 | \$ _____         | 78064 Yes                           |
| <input checked="" type="checkbox"/> System Modification.....          | 2, 3, 4, 7, 8, 9                 | \$ _____         | 78064 Yes                           |
| _____ Repair.....                                                     | 2, 3, 4, 7, 8, 9                 | \$ _____         | 78032                               |
| _____ Inspection Letter.....                                          | 2, 3, 5, 7, 8, 9                 | \$ _____         | 78030                               |
| _____ Water Sample                                                    |                                  |                  |                                     |
| _____ Total Coliform.....                                             | 2, 3, 6, 7, 8, 9                 | \$ _____         | 78036 Yes                           |
| _____ Fecal Coliform.....                                             | 2, 3, 6, 7, 8, 9                 | \$ _____         | 78038 Yes                           |
| _____ Alternative System Permit*.....                                 |                                  | \$ _____         | 78068                               |
| _____ Large Conventional System Plan Review*.....                     |                                  | \$ _____         | 78090                               |
| _____ Large Alternative System Plan Review*.....                      |                                  | \$ _____         | 78090                               |
| _____ Experimental System Plan Review*.....                           |                                  | \$ _____         | 78072                               |
| _____ Subdivision Evaluation: Lots:.....*                             |                                  | \$ _____         | 78084                               |
| _____ Soil Mapping: Type _____ Acres.....*                            |                                  | \$ _____         | Yes                                 |
| _____ Installer Permit: Type(s).....*                                 |                                  | \$ _____         | 78026 Yes                           |
| _____ Pumper Permit*.....                                             |                                  | \$ _____         | 78028                               |
| _____ Plat Approval — Individual Lot.....                             |                                  | \$ _____         | 78029                               |
| _____ Domestic Septage Disposal Site Permit.....                      |                                  | \$ _____         | 78031                               |

\*Applicant may review these service requests with Environmental Specialist prior to processing application.

2. **LANDOWNER:** Names: Ronald C. Kerr **APPLICANT** Name: Ronald C. Kerr **ORIGINAL OWNER** Name: \_\_\_\_\_  
Address: 255 Jones Lane Address: \_\_\_\_\_  
Mooreburg TN 37811  
Day Phone: 272-3466 Day Phone: \_\_\_\_\_

3. **LOCATION OF LOT OR SITE:** a) In a subdivision? ☒ b) Name: The View Lot # 5  
b) Non-Subdivision \_\_\_\_\_ Give specific directions and address to the lot or site: Top of Clinch Mt-Fire Tower Rd  
HWY 31

4. **FOR SSDS PERMIT ONLY:** a) Size of lot 4.6 Acres b) Number of Bedrooms 3  
c) How many occupants? \_\_\_\_\_ d) Excavated Basement? Yes ☒ No \_\_\_\_\_  
e) Basement Plumbing Fixtures? Yes \_\_\_\_\_ No \_\_\_\_\_  
f) Amount of water used monthly (gallons) \_\_\_\_\_  
g) Water Supply: Public \_\_\_\_\_ Well \_\_\_\_\_ Spring ☒  
h) Is the lot staked? \_\_\_\_\_ If not, date it will be staked: \_\_\_\_\_  
Is the house staked? \_\_\_\_\_ If not, date it will be staked: \_\_\_\_\_  
i) Installer, if known: \_\_\_\_\_

5. **FOR INSPECTION LETTER ONLY:** Will pick up \_\_\_\_\_ Please mail \_\_\_\_\_  
a) Age of house \_\_\_\_\_ b) Is house vacant? \_\_\_\_\_ How long? \_\_\_\_\_  
c) Original sewage system inspected \_\_\_\_\_  
d) Date of previous repairs \_\_\_\_\_ Inspected \_\_\_\_\_  
e) Is waste water "backing up" into plumbing fixtures? \_\_\_\_\_ Surfacing on the ground? \_\_\_\_\_  
f) All waste water including washing machines routed into septic tank \_\_\_\_\_

6. **FOR WATER SAMPLE ONLY:** a) Source of Supply: Spring \_\_\_\_\_ Well \_\_\_\_\_  
b) Is there an outside faucet? \_\_\_\_\_ c) Is the source chlorinated? \_\_\_\_\_  
d) For Wells: Is the casing 6" above the ground? \_\_\_\_\_ Is a sanitary seal on the casing? \_\_\_\_\_

7. MAKE A ROUGH SKETCH ON BACK OF THIS **WHITE** PAGE SHOWING DIRECTIONS TO PROPERTY, PROPERTY LINES, HOUSE SITE, WELL LOCATION, SPRING LOCATION, PLANNED DRIVEWAY AND UTILITIES.

8. ALL FEES DUE IN ADVANCE AND ARE NON-REFUNDABLE (except upon appeal). See Fee Schedule on reverse. Make check payable to: **TREASURER, STATE OF TENNESSEE**

9. I certify that the above information is true and correct to the best of my knowledge, and that I have been authorized by the above named landowner to submit this Application for Environmental Services to the Division of Ground Water Protection.

DATE: July 16, 2002 SIGNATURE: Ronald C. Kerr AMOUNT PAID: \$ 200.00 RECEIPT NUMBER 50544

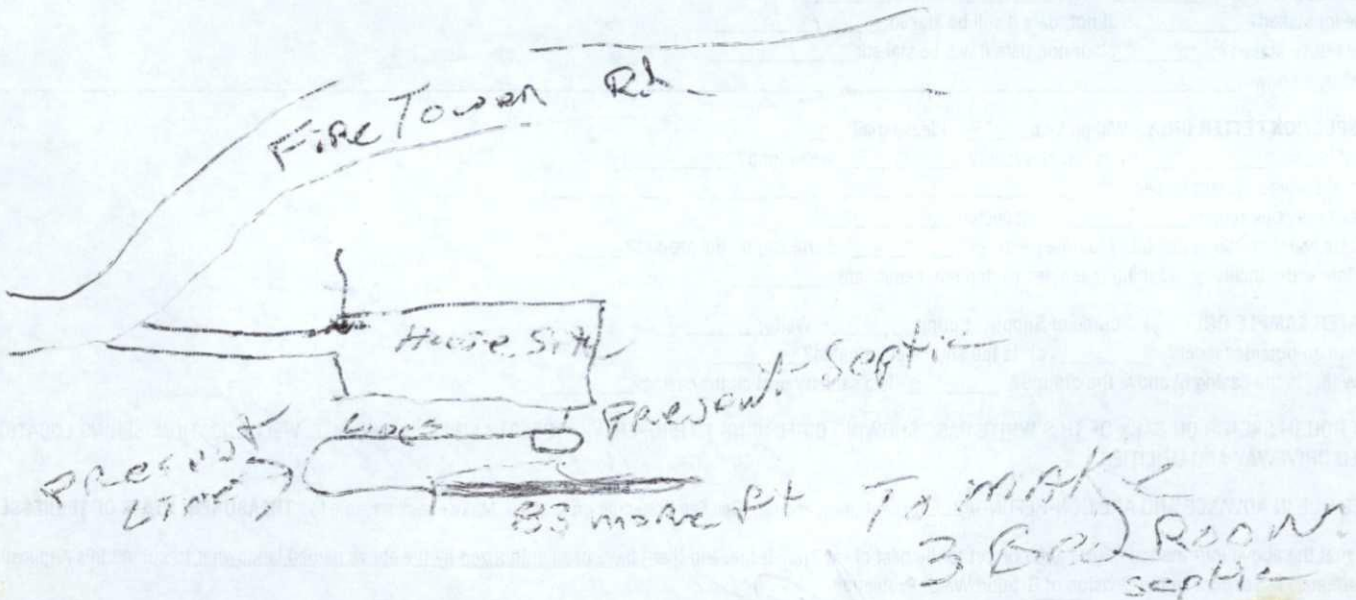
White: File

Canary: Owner

# FEE SCHEDULE

|                                                                   |                                                                  | PTBMIS<br>SUPP/CODE |
|-------------------------------------------------------------------|------------------------------------------------------------------|---------------------|
| Evaluation for Conventional, LDGP or Chamber Septic System Permit | \$200.00 up to 1000 gpd                                          |                     |
|                                                                   | \$100.00 for each additional 1000 gpd or portion thereof         | 78066               |
| Repair                                                            | \$None                                                           |                     |
| Inspection Letter                                                 | \$200.00                                                         |                     |
| Subdivision Evaluation                                            | \$ 40.00 per lot                                                 |                     |
| Water Samples:                                                    |                                                                  |                     |
| Total Coliform                                                    | \$ 50.00                                                         | 78036P              |
| Fecal Coliform                                                    | \$ 100.00                                                        | 78036P              |
| Soil Mapping:                                                     |                                                                  |                     |
| General Intensity                                                 | \$ 80.00 per acre — \$ 80.00 minimum                             | 78078               |
| High Intensity                                                    | \$130.00 per acre — \$130.00 minimum                             | 78040               |
| Extra High Intensity                                              | \$200.00 per acre — \$200.00 minimum                             | 78042               |
|                                                                   | (Minimum is for each separate acre or part of acre to be mapped) |                     |
| Alternative System Application Processing                         | \$300.00 up to 1000 gpd                                          | 78071               |
|                                                                   | \$150.00 for each additional 1000 gpm or portion thereof         | 78070               |
| Large Conventional or Large Alternative Plan Review               | \$600.00 per proposed system                                     |                     |
| Experimental System Application Processing                        | \$500.00                                                         |                     |
| Pumper Permit                                                     | \$200.00                                                         |                     |
| Installer Permit                                                  | \$200.00 for conventional, LDGP and chamber                      |                     |
|                                                                   | \$100.00 for each alternative system                             | 78080               |
| Plat Approval — Individual Lots                                   | \$ 40.00 per lot                                                 | 78029               |
| Domestic Septage Disposal Site Permit                             | \$400.00                                                         | 78031               |

## SKETCH



### Official Use:

File Search

Absorption Rate \_\_\_\_\_ At Depth \_\_\_\_\_

Percolation Rate \_\_\_\_\_ At Depth \_\_\_\_\_

Other Requirements



**CERTIFICATE OF COMPLETION OF SUBSURFACE SEWAGE DISPOSAL SYSTEM**

Issued to: Kerr Ronald  
Owner, Developer, Contractor, Installer, Etc.

Location: The View lot 5

Type of system

- ( ) 1. Conventional  
 ( ) 2. Low Pressure Pipe  
 ( ) 3. Mound  
 ( ) 4. Lagoon  
 (x) 5. Large Diameter Gravelless Pipe  
 (a) Sand backfill required Yes ( ) No (x)

( ) 6. Other

Existing

Septic Tank

Estimated Absorption Rate

30

(minutes per inch)

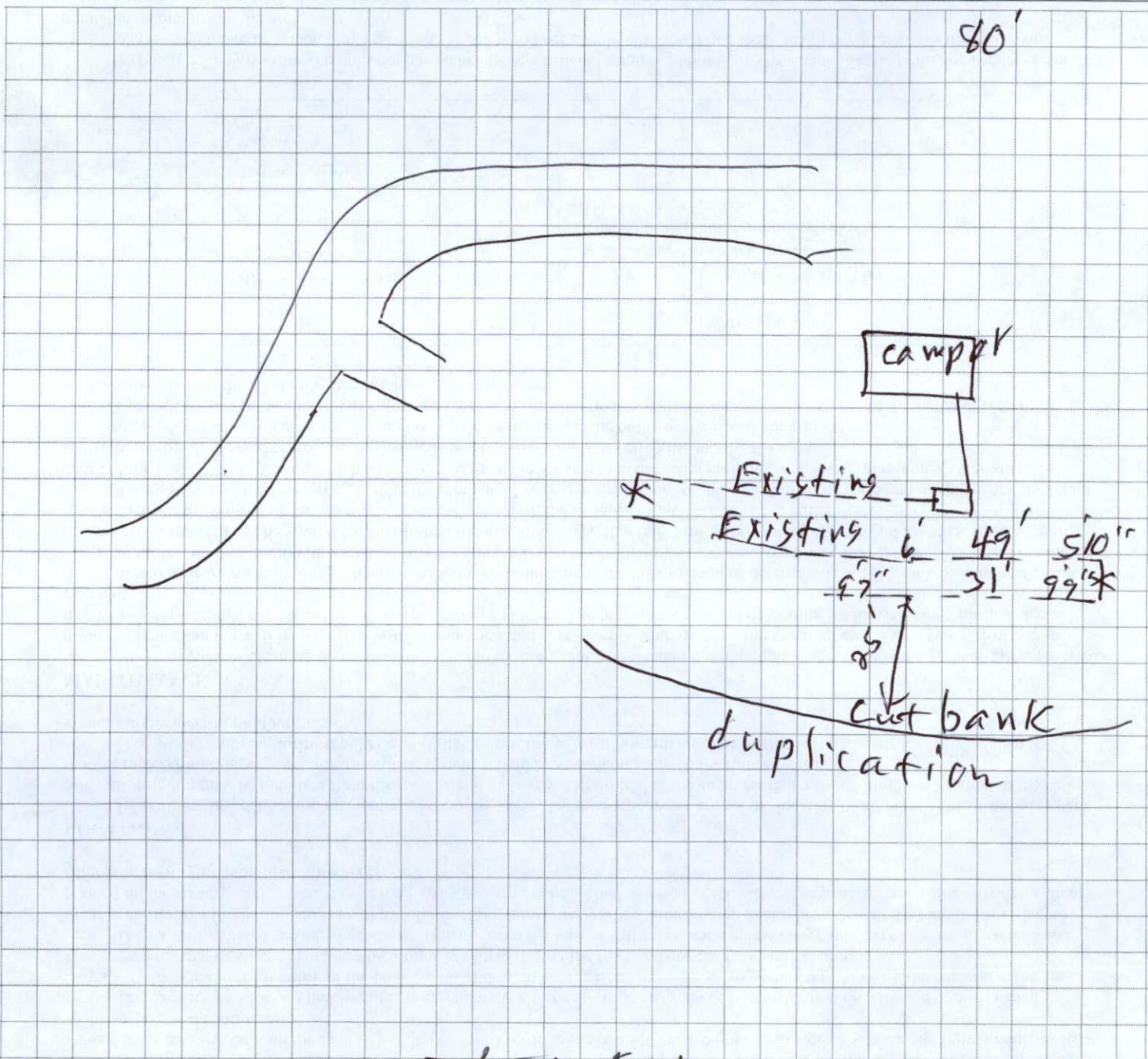
( ) New Installation

( ) Repair

(x) Other

Installed by:

Rhyme Eddie Price Added one bedroom



Construction Approved By:

Heiskell Stubblefield ES III 9-9-02

(Name and Title)

(date)

## SEPTIC TANK CARE

Residential sewage disposal systems are generally used in rural and unsewered suburban areas. A septic tank system must be properly designed, installed and maintained if reasonable service is to be expected.

A septic tank is a water tight structure in which organic solids are decomposed by natural bacterial processes. The flow of sewage is slowed in its passage through the tank so that larger solids settle to the bottom and accumulate as sludge. Grease and lighter particles rise to the surface and form scum.

The bacteria present in a tank are able to thrive in the absence of oxygen. Such decomposition in the absence of air is called "septic," which led to the naming of the tank. Solids and scum are digested and reduced to a smaller volume by the bacteria in the tank. However, a residue of sludge remains which must be stored during the interval between tank and cleanings.

The partially treated sewage, or effluent, flowing from the tank is still septic and contains large numbers of harmful bacteria and organic matter in a finely divided state or in solution. Foul odors, unsightly conditions and health hazards will develop if this effluent is ponded on the surface of the ground or carried away in open ditches. Final disposal of the effluent in a subsurface soil absorption system or filter is necessary to avoid these problems.

## LOCATION

To facilitate inspection and maintenance, it is imperative that the homeowner knows the location of all parts of the disposal system. Such information may be obtained from the local health authority. Details and accurate measurements including the location of the tank, pumps, underground piping, and the absorption system should be shown on a sketch for future reference.

Then local health authority should be consulted to determine the minimum requirements relating to distance between disposal systems and water supply facilities.

## MAINTENANCE

The frequency of cleaning depends on the size of the septic tank and the number of people it serves. When a garbage grinder is used, more frequent cleaning will be required. With ordinary use and care, a septic tank may require cleaning ever 2 or 3 years. However in many cases septic tanks can be satisfactorily operated even longer. The homeowner should determine for himself when his tank needs cleaning.

Actual measurement of sludge deposit and scum accumulation is the only method of determining when a tank need to be cleaned.

Scum can be measured with a stick to which a weighted flap has been hinged, or with any device that can be used to feel out the bottom of the scum mat. The stick if forced through the mat, the hinged flap falls into a horizontal position, and the stick is raised until resistance from the bottom of the scum felt. With the same tool, the distance to the bottom of the outlet device can be found.

A long stick wrapped with rough white toweling and lowered to the bottom of the tank will show the depth of sludge and the liquid depth of the tank. The stick should be lowered behind the outlet device to avoid scum particles. After several minutes, if the stick is carefully removed, the sludge line can be distinguished by sludge particles clinging into the toweling.

In two-compartment tanks, measurements should be made near the outlet of the first compartment.

The tank should be cleaned if either (a) The bottom of the scum mat is within 3 inches of the bottom of the outlet device; or (b) sludge comes within the limits specified in the accompanying table.

| LIQUID CAPACITY OF<br>TANK GALLONS | LIQUID DEPTH                                                       |        |        |
|------------------------------------|--------------------------------------------------------------------|--------|--------|
|                                    | 3 feet                                                             | 4 feet | 5 feet |
|                                    | Distance from bottom of outlet device<br>to top of sludge, inches. |        |        |
| 750 .....                          | 6                                                                  | 10     | 13     |
| 900 .....                          | 4                                                                  | 7      | 10     |
| 1,000 .....                        | 4                                                                  | 6      | 8      |

Do not allow any person who does not have a health department permit to pump your septic tank. Septic tanks are usually cleaned by companies who make this operation a business. The homeowner should check with the local health department for the names of reputable companies in the area.

There are no known chemicals, yeasts or other substance capable of eliminating or reducing the solids in a septic tank so that cleaning is unnecessary. The use of such product is not necessary for the proper operation of a septic tank.

Septic tanks and absorption systems frequently are damaged by heavy trucks or equipment moving over them. Reference to the location sketch of the system will be found helpful in directing heavy vehicles away from the critical areas. If there is no way to avoid crossing a sewer line, cast iron should be used under the crossing.

The roots of trees and shrubbery may enter the tile lines and clog them completely. When this occurs, the roots can be removed only digging up and cleaning the tile line.

Neglect of the septic tank is the most common cause of damage to soil absorption systems. When the tank is not cleaned, solids build up and are carried over into the absorption system causing clogging of the soil. When this happens the absorption system must be relocated and rebuilt.

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF GROUND WATER PROTECTION**

**PERMIT FOR CONSTRUCTION OF SUBSURFACE SEWAGE DISPOSAL SYSTEM**

Issued to: Kerr Ronald L.  
Owner, Developer, Contractor, Installer, Etc.

Location: The View  
1045

Installation:  
(☒) 1. New Installation  
( ) 2. Repair to Existing System  
Establishment:  
(☒) 1. Residential: # Bedrooms 1  
( ) 2. Other: \_\_\_\_\_ (specify)  
Gal/Day \_\_\_\_\_

Evaluation Based Upon:  
(☒) 1. Soil typing by Soil Scientist  
( ) a. General  
(☒) b. High Intensity  
( ) c. Extra High Intensity  
( ) 2. Soil Percolation Test  
( ) 3. Environmental Specialist  
Estimated Absorption Rate: 30 MPI

Type of System:  
(☒) 1. Conventional  
( ) 2. Low Pressure Pipe  
( ) 3. Mound  
( ) 4. Lagoon  
(☒) 5. Large Diameter Graveless Pipe  
( ) a. Sand backfill required  
( ) 6. Other

Approval based upon:  
Statute No. T.C.A. 68-221-403  
( ) (c) Percolation test  
( ) (d) Grandfather clause. Current standards except those specified  
( ) (f) 12" (karst) and 6" (non-karst) buffer required  
( ) (i) 9" buffer required (24"-36" total soil depth)  
( ) (k) Grandfather clause — meets June 30, 1990 standards (repair only)  
( ) Other \_\_\_\_\_

This system shall consist of a two compartment septic tank holding EXISTING gallons, with 84 linear feet in 2 trenches, 36 inches wide and 30 inches deep. (Depth of gravel: 12 inches)

Also required:  
( ) 1. Soil Improvement Practice (SIP)  
( ) 2. Flow Diversion Valve  
( ) 3. Sewage Pump  
( ) 4. Other: NA

All installers of subsurface sewage disposal systems must hold a valid annual license from the Tennessee Department of Environment and Conservation.

The recipient of this permit agrees to construct or have constructed the above described system in accordance with T.C.A. 68-221-401 et. seq. and The Regulations To Govern Subsurface Sewage Disposal Systems. If any part of the system is covered before being inspected and approved, it shall be uncovered by the recipient of the permit at the direction of personnel of the Department of Environment and Conservation. Any cutting, filling or alterations of the soil conditions on the aforementioned property after this day may render this approval null and void.

\_\_\_\_\_  
(Signature of Recipient) Date 7-25-02  
Issued at Memphis Tennessee, in Shanklin County  
By Heishell & McField ES/II Date 7-25-02  
(Name and Title) (Date of Issue)

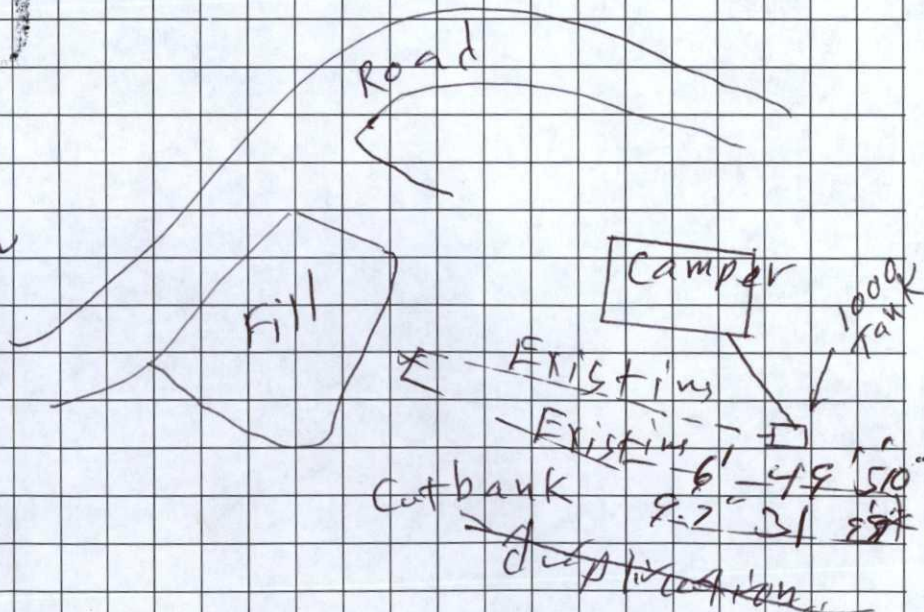
This permit is valid for 3 years from date of issue.

Notes

**CALL BEFORE 9:00 AM FOR INSPECTION  
INSTALL ON CONTOUR 6' BETWEEN TRENCHES  
STAY 10' FROM PROPERTY LINE, WATER LINE  
AND UTILITIES**

Stay 25' from  
cut bank

Duplication below  
cut bank



X Crossover  
→ SIP  
--- Field Line  
— Solid Line

This is a permit to construct and is not intended to imply approval of any work proposed or completed on this lot.



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
APPLICATION FOR GROUND WATER PROTECTION SERVICES

| 1. SERVICE REQUESTED: (check service)                                 | APPLICANT<br>COMPLETE QUESTIONS: | FEES DUE | PTBMIS CODES V689<br>Code Supp/Code |     |
|-----------------------------------------------------------------------|----------------------------------|----------|-------------------------------------|-----|
| <input checked="" type="checkbox"/> Septic System Construction Permit |                                  |          |                                     |     |
| <input checked="" type="checkbox"/> Dwelling .....                    | 2, 3, 4, 7, 8, 9                 | \$ 100.  | 78064                               | Yes |
| Commercial: gpd .....                                                 | 2, 3, 4, 7, 8, 9                 | \$       | 78064                               | Yes |
| System Modification .....                                             | 2, 3, 4, 7, 8, 9                 | \$       | 78064                               | Yes |
| Repair .....                                                          | 2, 3, 4, 7, 8, 9                 | \$       | 78032                               |     |
| Inspection Letter .....                                               | 2, 3, 5, 7, 8, 9                 | \$       | 78030                               |     |
| Water Sample                                                          |                                  |          |                                     |     |
| Total Coliform .....                                                  | 2, 3, 6, 7, 8, 9                 | \$       | 78036                               | Yes |
| Fecal Coliform .....                                                  | 2, 3, 6, 7, 8, 9                 | \$       | 78038                               | Yes |
| Alternative System Permit* .....                                      |                                  | \$       | 78068                               |     |
| Large Conventional System Plan Review* .....                          |                                  | \$       | 78099                               |     |
| Large Alternative System Plan Review* .....                           |                                  | \$       | 78099                               |     |
| Experimental System Plan Review* .....                                |                                  | \$       | 78072                               |     |
| Subdivision Evaluation: Lots: .....                                   |                                  | \$       |                                     |     |
| Soil Mapping: Type .....                                              |                                  | \$       |                                     | Yes |
| Installer Permit: Type(s) .....                                       |                                  | \$       | 78026                               | Yes |
| Pumper Permit* .....                                                  |                                  | \$       | 78028                               |     |
| Plat Approval — Individual Lot .....                                  |                                  | \$       | 78029                               |     |
| Domestic Septage Disposal Site Permit .....                           |                                  | \$       | 78031                               |     |

\*Applicant may review these service requests with Environmental Specialist prior to processing application.

|                         |            |                |
|-------------------------|------------|----------------|
| 2. LANDOWNER:           | APPLICANT  | ORIGINAL OWNER |
| Names: Ron Kerr         | Name: SAME | Name:          |
| Address: 255 Jones Lane | Address:   |                |
| Marietta, TN            |            |                |
| Day Phone: 272-1316     | Day Phone: |                |

3. LOCATION OF LOT OR SITE: a) In a subdivision? \_\_\_\_\_ b) Name: \_\_\_\_\_ Lot # \_\_\_\_\_  
b) Non-Subdivision \_\_\_\_\_ Give specific directions and address to the lot or site: \_\_\_\_\_

4. FOR SSDS PERMIT ONLY: a) Size of lot \_\_\_\_\_ b) Number of Bedrooms 2  
c) How many occupants? \_\_\_\_\_ d) Excavated Basement? Yes \_\_\_\_\_ No \_\_\_\_\_  
e) Basement Plumbing Fixtures? Yes \_\_\_\_\_ No \_\_\_\_\_  
f) Amount of water used monthly (gallons) 12  
g) Water Supply: Public \_\_\_\_\_ Well \_\_\_\_\_ Spring \_\_\_\_\_  
h) Is the lot staked? ☒ If not, date it will be staked: \_\_\_\_\_  
Is the house staked? \_\_\_\_\_ If not, date it will be staked: \_\_\_\_\_  
i) Installer, if known: \_\_\_\_\_

5. FOR INSPECTION LETTER ONLY: Will pick up \_\_\_\_\_ Please mail \_\_\_\_\_  
a) Age of house \_\_\_\_\_ b) Is house vacant? \_\_\_\_\_ How long? \_\_\_\_\_  
c) Original sewage system inspected by Health Department? \_\_\_\_\_  
d) Date of previous repairs \_\_\_\_\_ Inspected \_\_\_\_\_  
e) Is waste water "backing up" into plumbing fixtures? \_\_\_\_\_ Surfacing on the ground? \_\_\_\_\_  
f) All waste water including washing machines routed into septic tank \_\_\_\_\_

6. FOR WATER SAMPLE ONLY: a) Source of Supply: Spring \_\_\_\_\_ Well \_\_\_\_\_  
b) Is there an outside faucet? \_\_\_\_\_ c) Is the source chlorinated? \_\_\_\_\_  
d) For Wells: Is the casing 6" above the ground? \_\_\_\_\_ Is a sanitary seal on the casing? \_\_\_\_\_

7. MAKE A ROUGH SKETCH ON BACK OF THIS **WHITE** PAGE SHOWING DIRECTIONS TO PROPERTY, PROPERTY LINES, HOUSE SITE, WELL LOCATION, SPRING LOCATION, PLANNED DRIVEWAY AND UTILITIES.

8. ALL FEES DUE IN ADVANCE AND ARE NON-REFUNDABLE (except upon appeal). See Fee Schedule on reverse. Make check payable to: **TREASURER, STATE OF TENNESSEE**

9. I certify that the above information is true and correct to the best of my knowledge, and that I have been authorized by the above named landowner to submit this Application for Environmental Services to the Division of Ground Water Protection.

DATE: 4-6-200 SIGNATURE: Ron Kerr AMOUNT PAID: \$ 100.00 RECEIPT NUMBER 41095

White: File Canary: Owner

## FEE SCHEDULE

|                                                                     |                                                                                            | PTBMIS<br>SUPP/CODE |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------|
| Evaluation for Conventional or LDGP<br>Septic System Permit         | \$100.00 up to 1000 gpd<br><br>\$ 50.00 for each additional 1000<br>gpd or portion thereof | <br><br>78066       |
| Repair                                                              | \$None                                                                                     |                     |
| Inspection Letter                                                   | \$100.00                                                                                   |                     |
| Subdivision Evaluation                                              | \$ 20.00 per lot                                                                           |                     |
| Water Samples:                                                      |                                                                                            |                     |
| Total Coliform                                                      | \$ 25.00                                                                                   | 78036P              |
| Fecal Coliform                                                      | \$ 50.00                                                                                   | 78036P              |
| Soil Mapping:                                                       |                                                                                            |                     |
| Low Intensity                                                       | \$ 65.00 up to 5 acres<br>\$ 10.00 per acre thereafter                                     | 78074<br>78076      |
| General Intensity                                                   | \$ 40.00 per acre — \$ 40.00 minimum                                                       | 78078               |
| High Intensity                                                      | \$ 65.00 per acre — \$ 65.00 minimum                                                       | 78040               |
| Extra High Intensity                                                | \$ 100.00 per acre — \$100.00 minimum                                                      | 78042               |
| (Minimum is for each separate acre or part of<br>acre to be mapped) |                                                                                            |                     |
| Alternative System Application Processing                           | \$150.00 up to 1000 gpd<br>\$ 75.00 for each<br>additional 1000 gpm<br>or portion thereof  | <br>78070           |
| Large Conventional or Large Alternative Plan Review                 | \$300.00 per proposed system                                                               |                     |
| Experimental System Application Processing                          | \$250.00                                                                                   |                     |
| Pumper Permit                                                       | \$100.00                                                                                   |                     |
| Installer Permit                                                    | \$100.00 for conventional & LDGP<br>\$ 50.00 for each alternative system                   | 78080               |
| Plat Approval — Individual Lots                                     | \$ 20.00 per lot                                                                           | 78029               |
| Domestic Septage Disposal Site Permit                               | \$200.00                                                                                   | 78031               |

### SKETCH

Turn right off Hwy 11 AT EXXON ON to  
Hwy 31. Go about 8 miles. Fire  
Tower Rd.

#### Official Use:

File Search \_\_\_\_\_  
Absorption Rate \_\_\_\_\_ At Depth \_\_\_\_\_  
Percolation Rate \_\_\_\_\_ At Depth \_\_\_\_\_  
Other Requirements \_\_\_\_\_



## CERTIFICATE OF COMPLETION OF SUBSURFACE SEWAGE DISPOSAL SYSTEM

Issued to: Kerr Ron

Owner, Developer, Contractor, Installer, Etc.

Location: Fire Tower Rd

Type of system

- ( ) 1. Conventional  
( ) 2. Low Pressure Pipe  
( ) 3. Mound  
( ) 4. Lagoon  
(x) 5. Large Diameter Gravelless Pipe

(a) Sand backfill required Yes ( ) No (x)

( ) 6. Other

cloud 9 1000

(type)

(volume)

Septic Tank

Estimated Absorption Rate

30

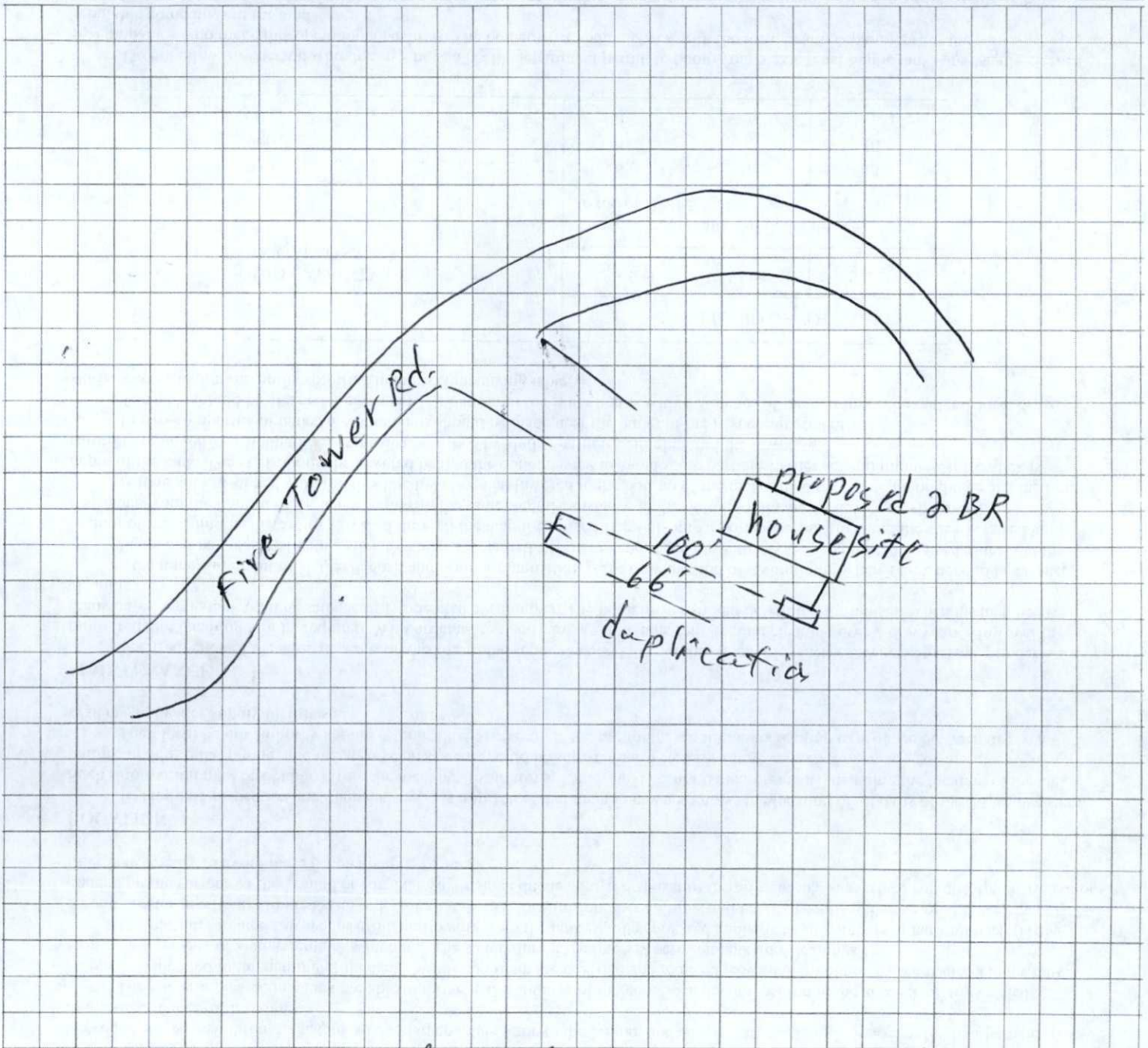
(minutes per inch)

(x) New Installation

( ) Repair

( ) Other

Installed by:

Wayne Eddie Price

Construction Approved By:

Heiskell Stubblefield ES III 5-4-00

(Name and Title)

(date)

## SEPTIC TANK CARE

Residential sewage disposal systems are generally used in rural and unsewered suburban areas. A septic tank system must be properly designed, installed and maintained if reasonable service is to be expected.

A septic tank is a water tight structure in which organic solids are decomposed by natural bacterial processes. The flow of sewage is slowed in its passage through the tank so that larger solids settle to the bottom and accumulate as sludge. Grease and lighter particles rise to the surface and form scum.

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## LOCATION

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## MAINTENANCE

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Actual measurement of sludge deposit and scum accumulation is the only method of determining when a tank need to be cleaned.

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In two-compartment tanks, measurements should be made near the outlet of the first compartment.

The tank should be cleaned if either (a) The bottom of the scum mat is within 3 inches of the bottom of the outlet device; or (b) sludge comes within the limits specified in the accompanying table.

| LIQUID CAPACITY OF<br>TANK GALLONS | LIQUID DEPTH                                                       |        |        |
|------------------------------------|--------------------------------------------------------------------|--------|--------|
|                                    | 3 feet                                                             | 4 feet | 5 feet |
|                                    | Distance from bottom of outlet device<br>to top of sludge, inches. |        |        |
| 750 .....                          | 6                                                                  | 10     | 13     |
| 900 .....                          | 4                                                                  | 7      | 10     |
| 1,000 .....                        | 4                                                                  | 6      | 8      |

Do not allow any person who does not have a health department permit to pump your septic tank. Septic tanks are usually cleaned by companies who make this operation a business. The homeowner should check with the local health department for the names of reputable companies in the area.

There are no known chemicals, yeasts or other substance capable of eliminating or reducing the solids in a septic tank so that cleaning is unnecessary. The use of such product is not necessary for the proper operation of a septic tank.

Septic tanks and absorption systems frequently are damaged by heavy trucks or equipment moving over them. Reference to the location sketch of the system will be found helpful in directing heavy vehicles away from the critical areas. If there is no way to avoid crossing a sewer line, cast iron should be used under the crossing.

The roots of trees and shrubbery may enter the tile lines and clog them completely. When this occurs, the roots can be removed only digging up and cleaning the tile line.

Neglect of the septic tank is the most common cause of damage to soil absorption systems. When the tank is not cleaned, solids build up and are carried over into the absorption system causing clogging of the soil. When this happens the absorption system must be relocated and rebuilt.

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF GROUND WATER PROTECTION**

**PERMIT FOR CONSTRUCTION OF SUBSURFACE SEWAGE DISPOSAL SYSTEM**

|                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Issued to: <u>Kerr Ron</u><br><small>Owner, Developer, Contractor, Installer, Etc.</small><br>Location: <u>Fire Tower Rd.</u><br>Installation:<br><input checked="" type="checkbox"/> 1. New Installation<br><input type="checkbox"/> 2. Repair to Existing System<br>Establishment:<br><input checked="" type="checkbox"/> 1. Residential: # Bedrooms <u>2</u><br><input type="checkbox"/> 2. Other: _____ (specify)<br>Gal/Day _____ | Evaluation Based Upon:<br><input type="checkbox"/> 1. Soil typing by Soil Scientist<br><input type="checkbox"/> a. General<br><input type="checkbox"/> b. High Intensity<br><input type="checkbox"/> c. Extra High Intensity<br><input checked="" type="checkbox"/> 2. Soil Percolation Test<br><input checked="" type="checkbox"/> 3. Environmental Specialist<br>Estimated Absorption Rate: <u>30</u> MPI<br>Approval based upon:<br>Statute No. <u>T.C.A. 68-221-403</u><br><input type="checkbox"/> (c) Percolation test<br><input type="checkbox"/> (d) Grandfather clause. Current standards except those specified<br><input type="checkbox"/> (f) 12" (karst) and 6" (non-karst) buffer required | Type of System:<br><input type="checkbox"/> 1. Conventional<br><input type="checkbox"/> 2. Low Pressure Pipe<br><input type="checkbox"/> 3. Mound<br><input checked="" type="checkbox"/> 4. Lagoon<br><input checked="" type="checkbox"/> 5. Large Diameter Graveless Pipe<br><input type="checkbox"/> a. Sand backfill required<br><input type="checkbox"/> 6. Other<br><br><input type="checkbox"/> (i) 9" buffer required (24"-36" total soil depth)<br><input type="checkbox"/> (k) Grandfather clause — meets June 30, 1990 standards (repair only)<br><input type="checkbox"/> Other: <u>MA</u> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

This system shall consist of a two compartment septic tank holding 750 gallons, with 166 linear feet in 2 trenches, 24 inches wide and 24 inches deep. (Depth of gravel: \_\_\_\_\_ inches) cloud 9 106 graveless pipe

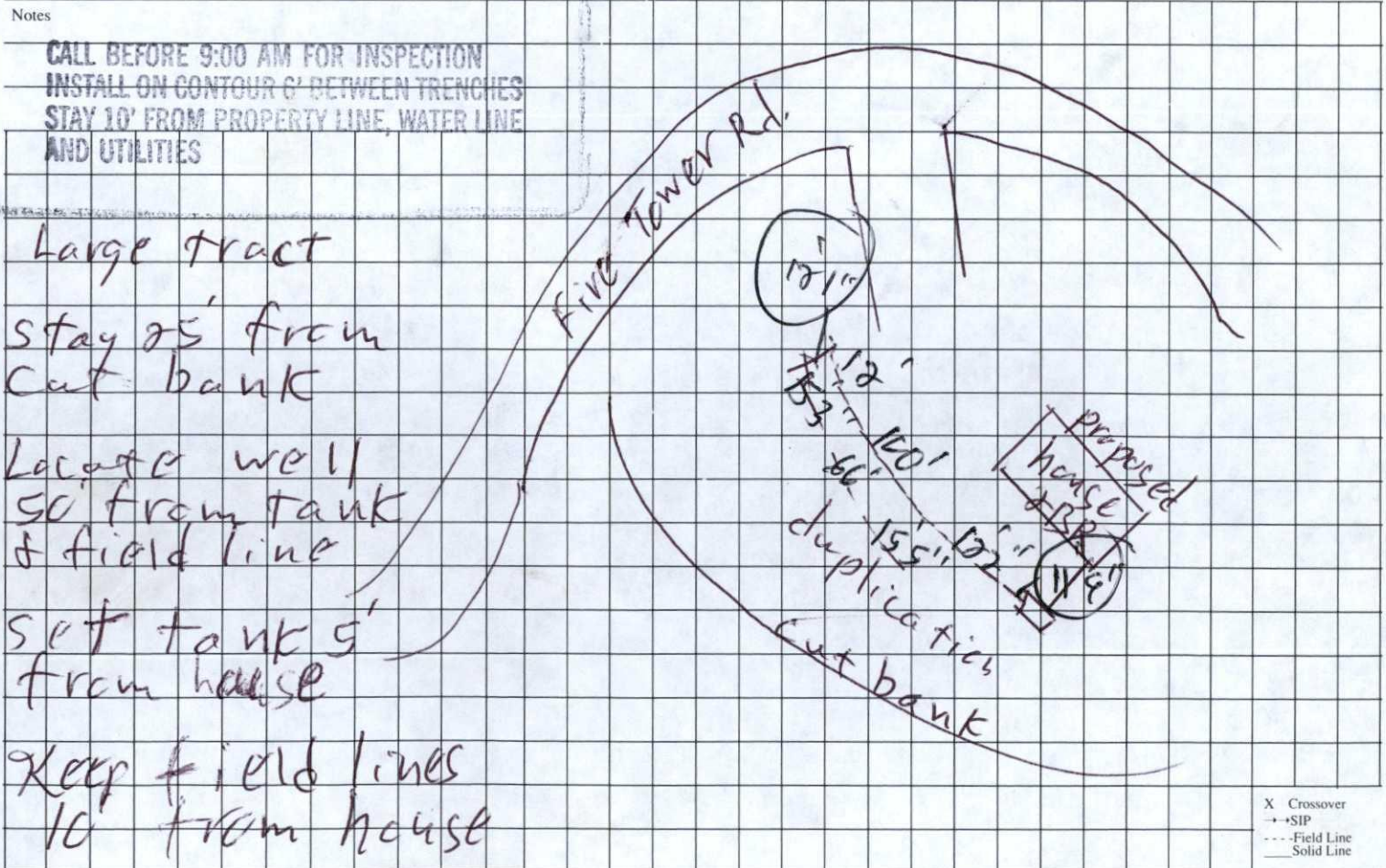
Also required:  
☐ 1. Soil Improvement Practice (SIP)  
☐ 2. Flow Diversion Valve  
☐ 3. Sewage Pump  
☐ 4. Other: MA

All installers of subsurface sewage disposal systems must hold a valid annual license from the Tennessee Department of Environment and Conservation.

The recipient of this permit agrees to construct or have constructed the above described system in accordance with T.C.A. 68-221-401 et. seq. and The Regulations To Govern Subsurface Sewage Disposal Systems. If any part of the system is covered before being inspected and approved, it shall be uncovered by the recipient of the permit at the direction of personnel of the Department of Environment and Conservation. Any cutting, filling or alterations of the soil conditions on the aforementioned property after this day may render this approval null and void.

\_\_\_\_\_  
 (Signature of Recipient) Date 4-13-01  
 Issued at Mareshburg Tennessee, in Hamph County  
 By Heishel Stillefeld ES111 Date 4-13-01  
 (Name and Title) (Date of Issue)

This permit is valid for 3 years from date of issue.



This is a permit to construct and is not intended to imply approval of any work proposed or completed on this lot.



TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT  
FIELD AND ACTIVITY REPORT  
DIVISION OF GROUND WATER PROTECTION

COUNTY HAWKINS CITY \_\_\_\_\_ DATE 9-20-88

HEALTH DEPARTMENT OFFICIALS CONTACTED WASKell Stubblefield

OTHER INDIVIDUALS CONTACTED \_\_\_\_\_

REPORT (1. Purpose of Visit, 2. Activities, 3. Recommendations, 4. Comments)

Patrice Kear property on Jones Road off Highway 31  
(Mooresburg Area)

I looked at the area approximately 150 feet behind the house and about 40 feet from the farm road.

The soil in this area was Shelata variant (parent material) with an estimated soil absorption rate of 45 mpi to 36".

Eddie McCroskey  
Soils Consultant  
TDHE.

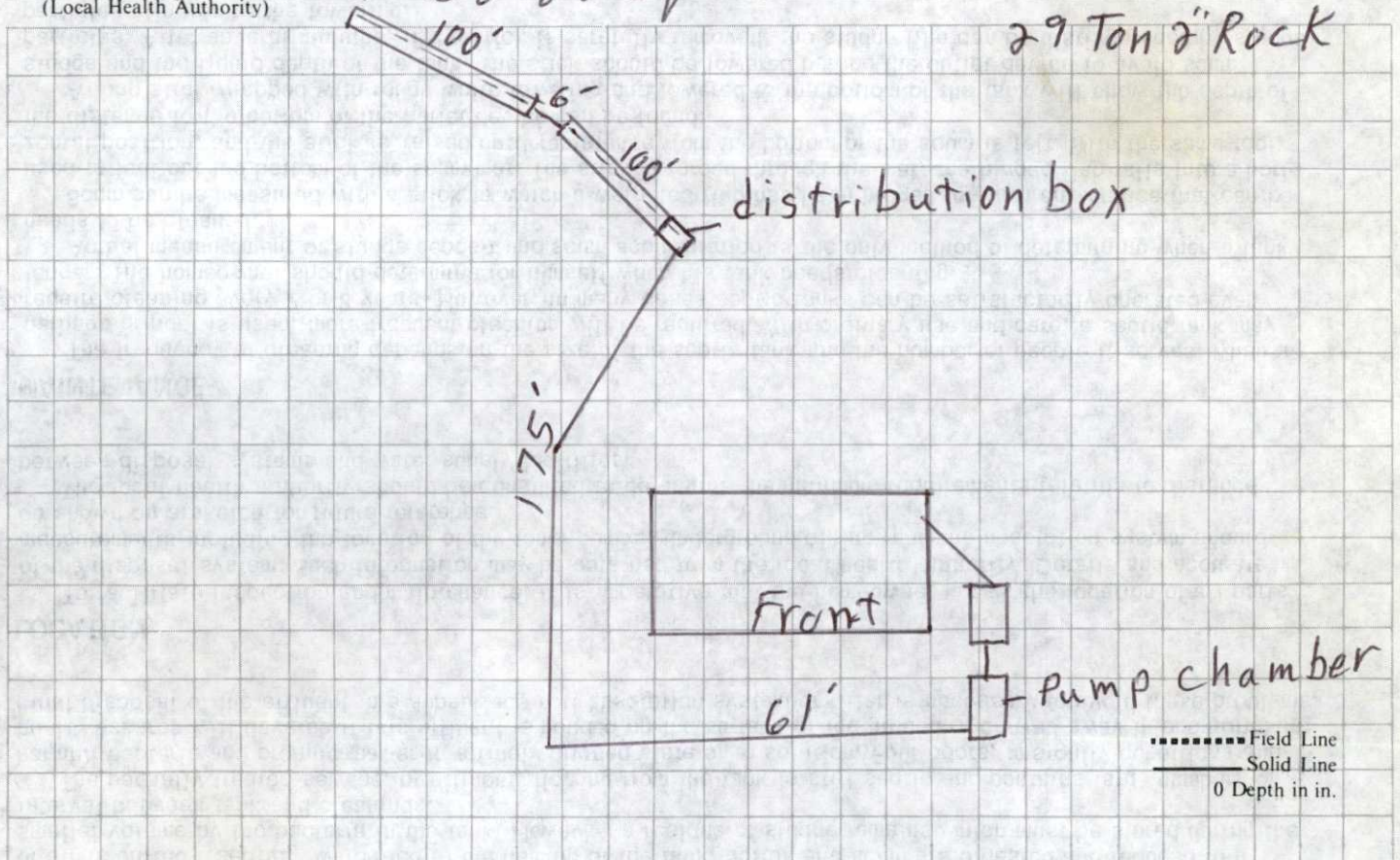
## PERMIT FOR CONSTRUCTION OF SUBSURFACE SEWAGE DISPOSAL SYSTEM

166663

|                                                                                                                                                                                  |                                                                                                                                                                                 |                                                                                                               |           |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------|-------------------------|
| Issued to: <u>Rent Patrice Kerr</u><br>Owner, Developer, Contractor, Installer, Etc.                                                                                             | REGION<br><u>1</u>                                                                                                                                                              | COUNTY<br><u>37</u>                                                                                           | ID-NUMBER | DATE<br><u>09-28-88</u> |
| To be constructed by _____<br>(Installer)                                                                                                                                        | STAFF<br><u>025</u>                                                                                                                                                             | INSTALLATION: ( ) 1. New Installation<br>( <input checked="" type="checkbox"/> ) 2. Repair to Existing System |           |                         |
| Construction of a subsurface sewage disposal system is hereby authorized at:<br><u>Jones Lane off Hwy 31</u><br>(No. and street; Subdivision name and lot no.)                   | Type of System: ( <input checked="" type="checkbox"/> ) 1. Standard ( ) 3. Chapter 301 ( ) 5. Other<br>( ) 2. Alternating ( ) 4. Chapter 212                                    |                                                                                                               |           |                         |
| Such a system shall consist of a septic tank of <u>800</u> gals.<br>with <u>200</u> linear feet in <u>2</u> trenches,<br><u>36"</u> inches wide, and <u>24"</u> deep<br>or _____ | For: ( <input checked="" type="checkbox"/> ) 1. Residential: No. B/R <u>2</u><br>( ) 2. Commercial/Industrial; Gal/Day _____                                                    |                                                                                                               |           |                         |
|                                                                                                                                                                                  | Evaluation based Upon: ( <input checked="" type="checkbox"/> ) 1. Soil Typing by Soil Scientist<br>( ) 2. Soil Percolation Tests<br>( ) 3. Other<br>Permeability Rate <u>45</u> |                                                                                                               |           |                         |

The recipient of this permit agrees to construct or have constructed the system in accordance with the rules and regulations under the authority of TCA 53-2054. The recipient must notify the local health authority when the system is ready for inspection. If any part of system is covered before being inspected and approved, it shall be uncovered by the recipient of the permit at the direction of the local health authority.

+ Patrice Kerr Date 9-28-88  
(Signature of Recipient-Owner, Developer, Contractor, Etc.)  
Issued at Mareshburg Tennessee in the County of Hankin  
By Reishell Stubblefield Date 9-28-88  
(Local Health Authority) 29 Ton 2" Rock



Inspected By \_\_\_\_\_  
Local Health Authority

Date \_\_\_\_\_

Construction Approval: ( ) 1. Yes ( ) 2. No

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

No. of Visits: \_\_\_\_\_

Time

"Drive Shackles"

## SEPTIC TANK CARE

Residential sewage disposal systems are generally used in rural and unsewered suburban areas. A septic tank system must be properly designed, installed and maintained if reasonable service is to be expected.

A septic tank is a water tight structure in which organic solids are decomposed by natural bacterial processes. The flow of sewage is slowed in its passage through the tank so that larger solids settle to the bottom and accumulate as sludge. Grease and lighter particles rise to the surface and form scum.

The bacteria present in a tank are able to thrive in the absence of oxygen. Such decomposition in the absence of air is called "septic," which led to the naming of the tank. Solids and scum are digested and reduced to a smaller volume by the bacteria in the tank. However, a residue of sludge remains which must be stored during the interval between tank and cleanings.

The partially treated sewage, or effluent, flowing from the tank is still septic and contains large numbers of harmful bacteria and organic matter in a finely divided state or in solution. Foul odors, unsightly conditions and health hazards will develop if this effluent is ponded on the surface of the ground or carried away in open ditches. Final disposal of the effluent in a subsurface soil absorption system or filter is necessary to avoid these problems.

## LOCATION

To facilitate inspection and maintenance, it is imperative that the homeowner knows the location of all parts of the disposal system. Such information may be obtained from the local health authority. Details and accurate measurements including the location of the tank, pumps, underground piping, and the absorption system should be shown on a sketch for future reference.

The local health authority should be consulted to determine the minimum requirements relating to distance between disposal systems and water supply facilities.

## MAINTENANCE

The frequency of cleaning depends on the size of the septic tank and the number of people it serves. When a garbage grinder is used, more frequent cleaning will be required. With ordinary use and care, a septic tank may require cleaning every 2 or 3 years. However, in many cases septic tanks can be satisfactorily operated even longer. The homeowner should determine for himself when his tank needs cleaning.

Actual measurement of sludge deposit and scum accumulation is the only method of determining when a tank needs to be cleaned.

Scum can be measured with a stick to which a weighted flap has been hinged, or with any device that can be used to feel out the bottom of the scum mat. The stick is forced through the mat, the hinged flap falls into a horizontal position, and the stick is raised until resistance from the bottom of the scum is felt. With the same tool, the distance to the bottom of the outlet device can be found.

A long stick wrapped with rough white toweling and lowered to the bottom of the tank will show the depth of sludge and the liquid depth of the tank. The stick should be lowered behind the outlet device to avoid scum particles. After several minutes, if the stick is carefully removed, the sludge line can be distinguished by sludge particles clinging to the toweling.

In two-compartment tanks, measurements should be made near the outlet of the first compartment.

The tank should be cleaned if either (a) The bottom of the scum mat is within 3 inches of the bottom of the outlet device; or (b) sludge comes within the limits specified in the accompanying table.

| LIQUID CAPACITY OF<br>TANK GALLONS | LIQUID DEPTH                                                       |        |        |
|------------------------------------|--------------------------------------------------------------------|--------|--------|
|                                    | 3 feet                                                             | 4 feet | 5 feet |
|                                    | Distance from bottom of outlet device<br>to top of sludge, inches. |        |        |
| 750 .....                          | 6                                                                  | 10     | 13     |
| 900 .....                          | 4                                                                  | 7      | 10     |
| 1,000 .....                        | 4                                                                  | 6      | 8      |

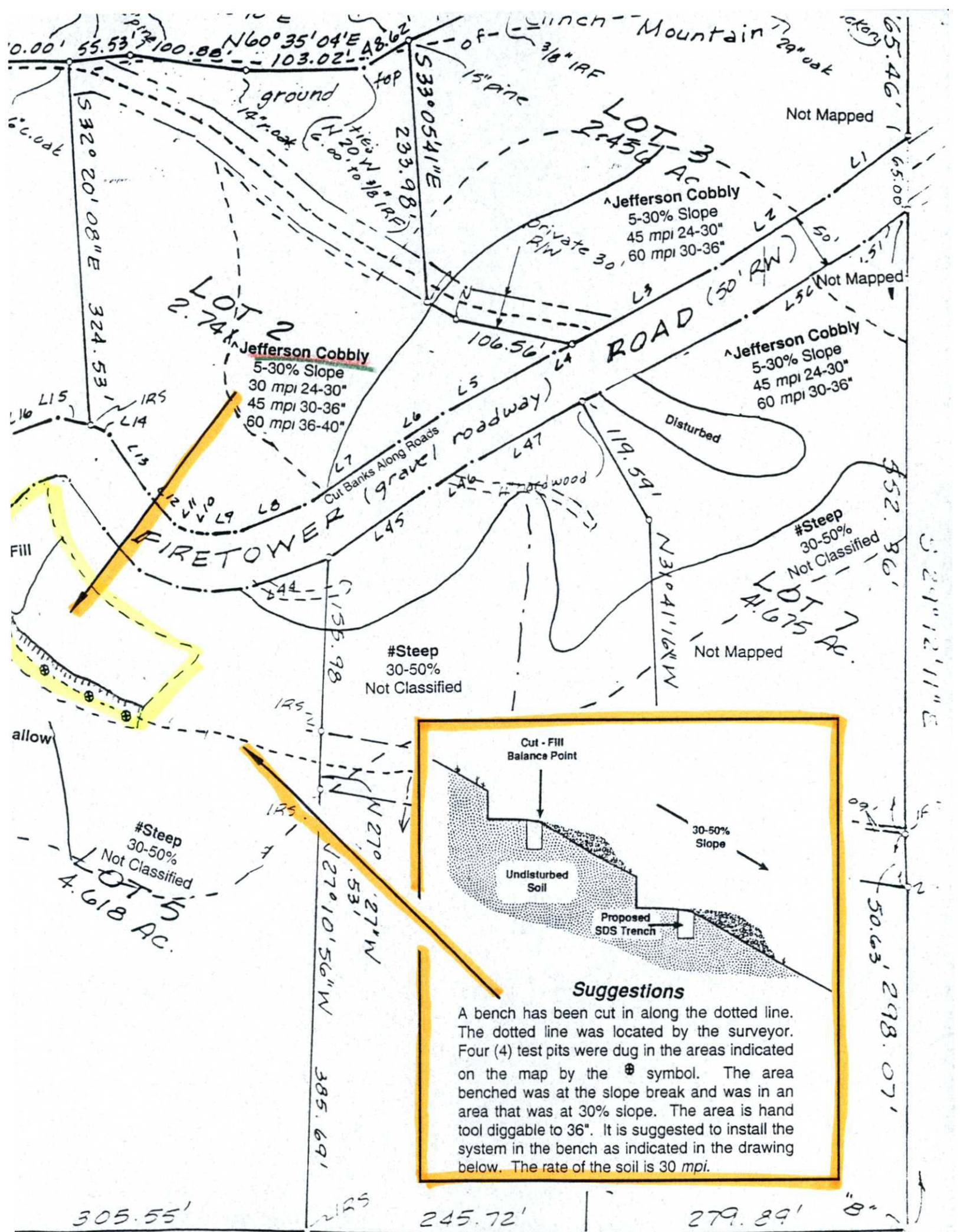
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# Environmental Soil Consulting

3444 Saint Andrews Drive  
Baneberry, Tennessee 37890  
Office (Vol) 874-6334  
Facsimile 874-2352



## High Intensity Soil Map



### Symbol Legend

- Natural Drainage
- ✓ Rock Outcrop
- Not Mapped Line
- ==== Driveway
- ~~~~ Gully

Additional Mapping on Lot 5  
July 23, 2002 *Jeffrey W. Cox, Jr.*

### Notes

(Notes Amended per Bill Brown 5-3-99, 5-13-99)

- This map is not for recording purposes. This map has been copied and/or reduced or enlarged for soil mapping purposes and convenience for the Tennessee Department of Environment and Conservation (TDEC). This is a copy of the final plat. The final plat is considered as part of this report and should be referred to for short lot line calls, curve data, location maps, et cetera. This map is void without a final plat that is consistent with this lot layout.
- Any cutting, filling or compaction will VOID this soil map.
- Phases and Additional Site Requirements: If the soils differ in rates from TDEC expectations, this is due to better or poorer moist consistence, texture, structure and all of the components of soil properties that affect soil permeability. The soil units are mainly polyhedons of soils that have similar properties with regard to subsurface sewage disposal.
- Phases and Additional Site Requirements: The soils on this subdivision have subsurface pinnacle rock. This is due to the nature of the geology of the area. The unit marked by the # symbol was very cobbly. It was not able to be determined with routine soil mapping procedures if 85% of the mapping unit is greater than 36-60 inches in depth. A portion of this area had rock-outcropping. These units may require pits to be dug and/or a rock study for further evaluation.

July 27, 2000

I hereby certify that this is a Category II,  
Level 1 and the ratio of precision of the  
unadjusted survey is 1:10,000 or better as  
shown herein

*C. Randall Orr*

C. RANDALL ORR, TH.RLS 1616

Speedville, TN 37869  
(423) 272-0416

Source: DB 416/776 (2000)  
Ref. Tax Parcel: 96-6 (portion)

## The VIEW atop Clinch Mountain

HAWKINS CO., TN, REGIONAL PLANNING COMMISSION

TOTAL ACRES 23.646  
ACRES NEW ROAD 0

TOTAL LOTS 7  
MILES NEW ROAD 0

OWNER Ronald Lee Kerr

CIVIL DISTRICT 2<sup>nd</sup>

SURVEYOR C. Randall Orr, RLS

CLOSURE ERROR 1:10,000+

SCALE 1" = 100'

