

7301 SAMPLE RD

02304215

1/7/2008

duponbj

Groundwater and Wastewater Services File Imaging Project

May 2007

Barcode Font = IDAutomationHC39M

CERTIFICATE OF COMPLETION/OPERATION PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 4543B DATE: 11/4/02

TC: 023-042-03 ☐ L ☑ CRT

SERIAL Nº 18950

Name of Owner Robert Core Kerr Juris.: _____

Address of Property 7301 Sample Road

Inspection Data:

Tank Material PCC

Total Length of Drainfield 640'

Number of Lines 4 @ 160

Cover Depth 12"

Water Supply Source well

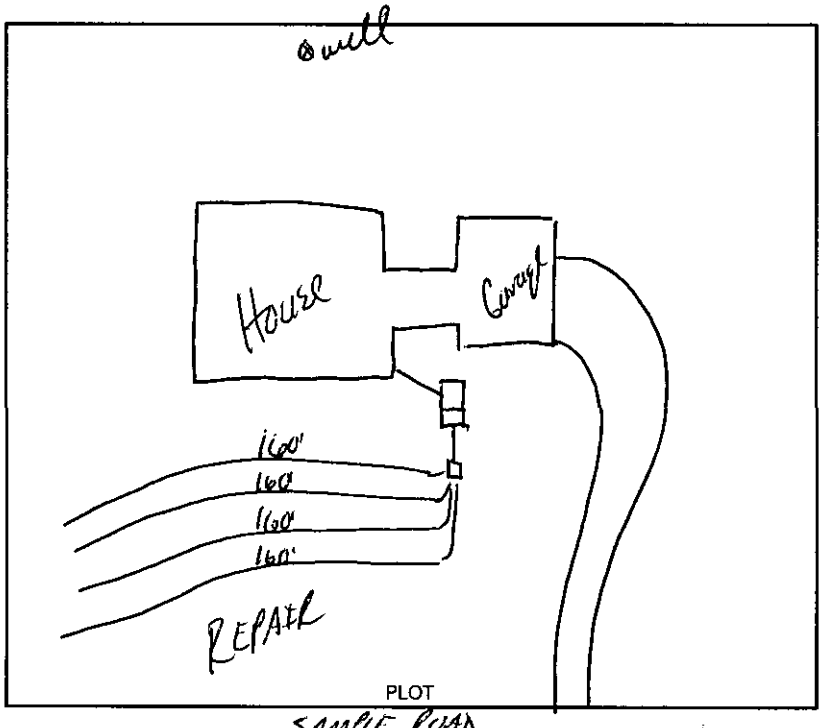
Distance to Water Source >100'

Excavation Inspected 11/4/02

Tank(s) Inspected 11/4/02

Wash Line Inspected N/A

High Water Alarm Inspected N/A



Design 1500 ST, 1920 SFT, CON, 12" Stone CTR# Homeowner

The undersigned has inspected the Septic Tank System described above, and certifies it has been

☒ installed or constructed ☐ altered or repaired

☐ in accordance with the permit issued ☒ as detailed in the plot above

and meets the provisions of I5A NCAC 18A. 1900, "Laws And Rules For Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. This issuance of this

☐ Certificate of Completion ☒ Operation Permit

does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of I5A NCAC 18A. 1990 in addition to those listed below under "COMMENTS." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the suspension/revocation of this permit.

COMMENTS: Four Bedroom House

4 lines x 160' x 3' x 12" Stone

Type II Conventional System

Tony Medlin RS.

Environmental Health Specialist

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

INSTALLATION, CONSTRUCTION, ALTERATION, AND/OR REPAIR APPROVAL

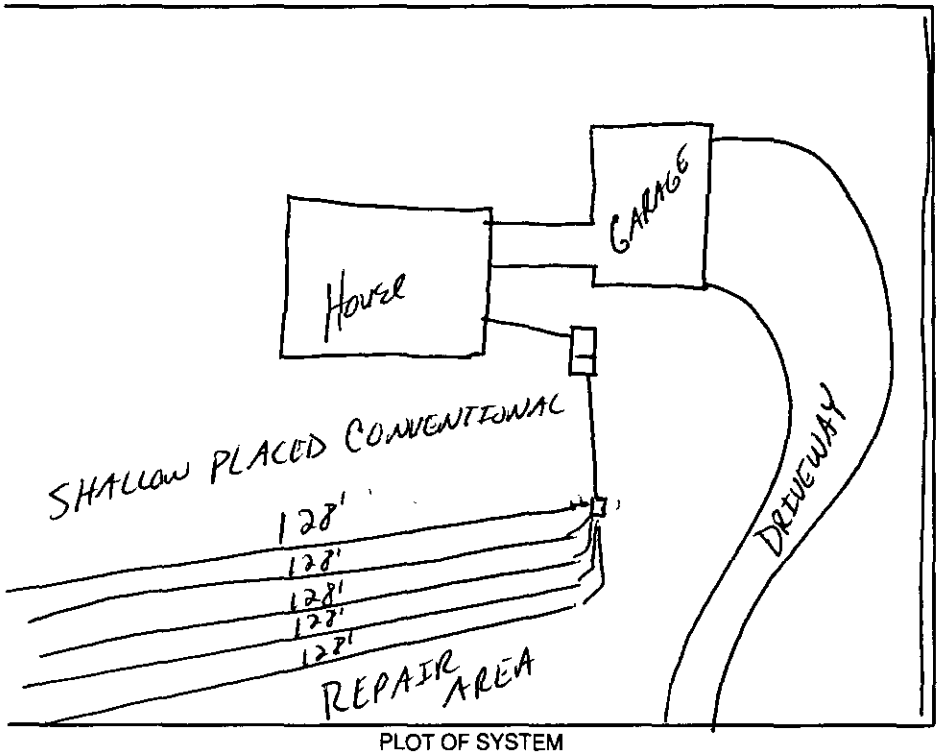
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 45438 DATE: 8/8/02

TC: 023-042-03 X L

SERIAL 19010

Permission is hereby given to ~~_____~~ Install or Construct, _____ Alter or Repair the individual septic tank wastewater treatment system with subsurface, soil absorption, effluent discharge as specified herein at the described location. This permit is granted based upon the information supplied in the application dated 2/26/01. All work shall be completed on or before 8/8/02, after which date this permit shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of the granting of this permit. A Certificate of Completion or an Operation Permit must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now or hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.



PLOT OF SYSTEM

Liquid Capacity of Septic Tank 1500 gallons

Liquid Capacity of Dosing Tank N/A gallons

Tank Construction PCC

Trench Depth 12"

Absorption and/or Nitrification Lines:

Trench Width 3' feet

Trench Walls Scored and Porous yes

Total Line Length 640 feet

Number of Lines 5 X 128'

Depth of Stone 12" inches

Distance from House >5' feet

Distance from Property Line >10' feet

Distance from Well >100' feet

7301 SAMPLE

NOTICE: This system shall not be installed while soils are in a wet condition.

NAME OF OWNER Robert Core Kerr

LOCATION OF PROPERTY 7301 Sample Road

Comments: Four Bedroom Residence

1500 gallon Septic Tank w/ Baffle wall

5 Lines x 128' x 3' x 12" Stone

install trenches 12" deep

Jimmy L. Medlin R.S.
Environmental Health Specialist

WHITE - HEALTH DEPARTMENT's COPY • CANARY - E.H.S. COPY • PINK - OWNER OR AGENT's COPY

Paid in full Apt# 019296

FEE: 300 AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION
DATE: 6/8/01 VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE NOS X

DATE: 6/8/01 PERMIT NO: 4543B
PARCEL NO: 023 042 03 P0

JOB LOCATION ADDRESS: 7301 Sample Rd
PROPERTY OWNER: Robert Lore Kerr
BUILDING CONTRACTOR: —
SUBDIVISION NAME: —
AUTHORIZATION ISSUED BY: Phillip S. Walker RS. DATE:
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 4543B, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION, CONSTRUCTION, ALTERATION AND/OR REPAIR APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. OTHER CONDITIONS: Ultra Shallow Placed Conventional System approval, Agreement forms shall be recorded and on file prior to cons. authe. release.

OWNER CERTIFICATION

I CERTIFY THAT THERE HAVE BEEN NO ALTERATIONS IN SITE OR SOIL CONDITIONS OR MODIFICATIONS TO FACILITY, WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS FROM THOSE SPECIFIED IN THE ORIGINAL APPLICATION OR ASSOCIATED IMPROVEMENT PERMIT UNLESS AUTHORIZED IN WRITING BY THE MECKLENBURG COUNTY HEALTH DEPARTMENT. I ALSO UNDERSTAND THAT ANY SUCH ALTERATIONS, MODIFICATIONS, OR FALSE INFORMATION ARE GROUNDS FOR REVOCATION OF PERMITS AND AUTHORIZATION TO CONSTRUCT.

x Robert L Kerr 6-8-01
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

Permit Number 4543B

CONDITIONS OF IMPROVEMENT PERMIT

Tax Number: 023 042 03 PO

The IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling or disturbance of the soil in the area of the septic tank system or repair area.

CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.

Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

Basement	___ Yes	✓ No	___ Partial Basement	
Type Primary Wastewater System Type (circle one): I II (III) IV V VI	___ Conventional ___ Prefabricated, permeable ✓ block panel system ___ Shallow Placed Conventional	___ Low Pressure Pipe ___ Large Diameter Pipe ___ Fill ___ Other	___ Innovative or Experimental: ___ IWWS-93-1 ___ IWWS-93-2 ___ IWWS-94-1	
.25 Long-term acceptance rate	480 Max gallons/day wastewater flow	1920 Absorption Area (sq ft)	9' Trench spacing (min. on centers)	
YES Serviced by private well	1500 Gallon septic tank	640 Total trench length (ft)	12" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions) 6" soil cover to be over laterals	
4 Bedrooms in residence	1000 Gallon pump tank	12" Depth of stone		

Any surface waters present: NO Type: Minimum separation distance:

Site modifications required: 6" soil cover to be brought in to cover laterals

Additional Conditions: Ultra Shallow Placed Conventional; 6" soil cover to be brought in to cover drainfield. Agreement forms shall be recorded and on file prior to cons. auth. release.

Repair Area System Type Type (circle one): I II (III) IV V VI	___ Conventional ___ Prefabricated, permeable ✓ block panel system ___ Shallow Placed Conventional	___ Low Pressure Pipe ___ Large Diameter Pipe ___ Fill ___ Other	___ Innovative or Experimental: ___ IWWS-93-1 ___ IWWS-93-2 ___ IWWS-94-1	
1920 Absorption Area (Sq ft) 640 Total Trench Length (Ft)	12" Depth of Stone Trench	9' Trench spacing (min. on centers)	12" Maximum Trench Depth	

For existing system, enter the year originally installed:

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws and Rules For Sewage, Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

--- No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair Approval is granted by this Department

--- This Improvement permit is transferable.

Phila S. Walker RS. 6/7/01
DEHNR Authorized Agent Date

x Robert Allen 6-8-01
Owner/Agent Signature Date

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, N.C. 28202.
(704) 336-5102

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH,
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

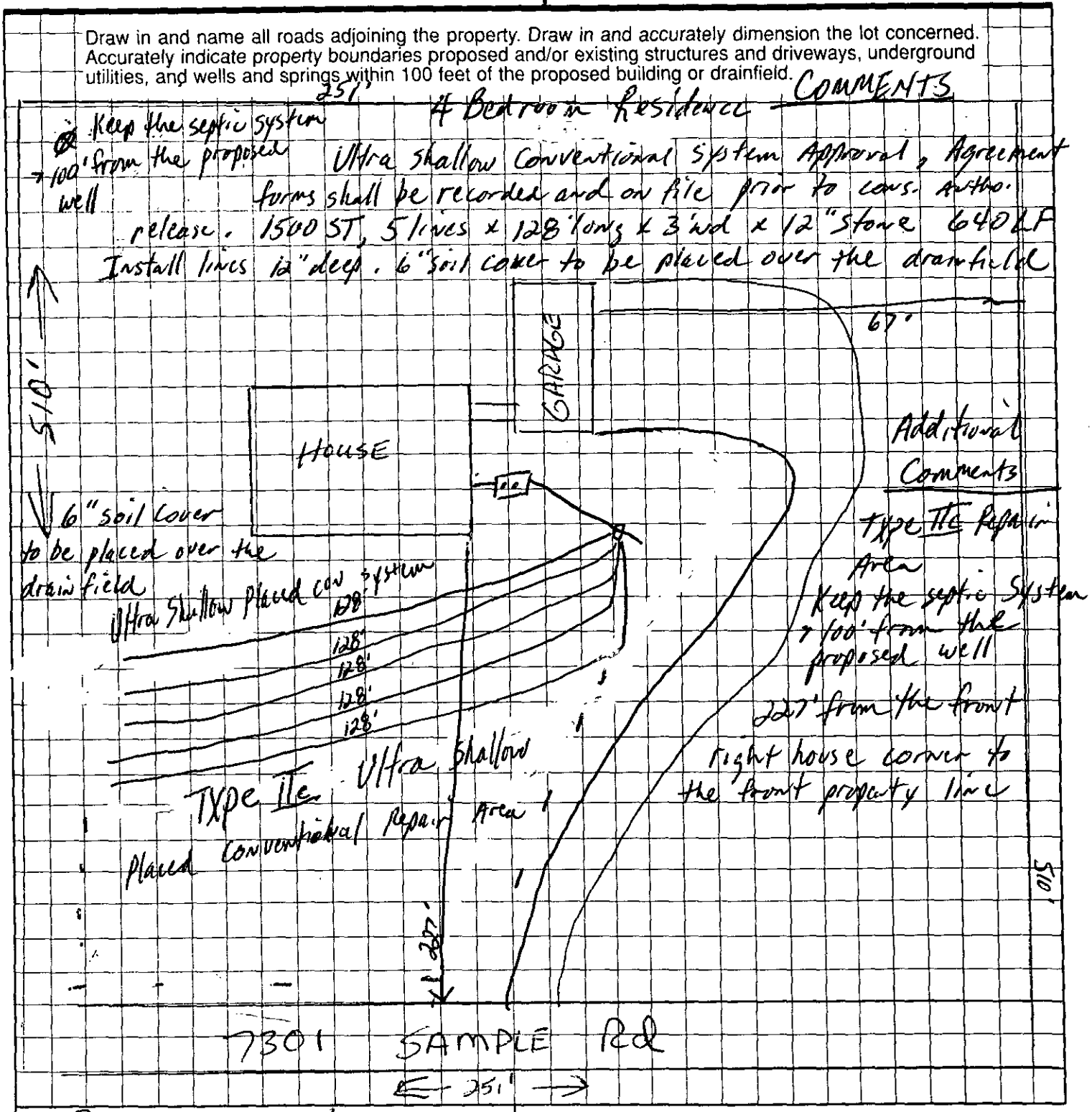
PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 4543B

TC: PO'023·042.03

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.



Robert F Kerr
OWNER/AGENT SIGNATURE

DATE 2-26-01

APPROVAL DATE _____

White - Health Department's Copy Canary - E.H.S. Copy Pink - Owner's Copy

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

2nd date ACS #3

Sheet:
Property ID: P0023-042-03
Lot #:
File #: 45473

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Robert L. Herr
APPLICANT:
ADDRESS: 3640 Cowboy Lane, Charlotte, VT 05445 DATE EVALUATED: 3-17-01
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 480gpd PROPERTY SIZE: 2.0
LOCATION OF SITE: 7301 Temple Road PROPERTY RECORDED:
WATER SUPPLY: ☑Private ☐Public ☐Well ☐Spring ☐Other
EVALUATION METHOD: ☐Augur Boring ☑Pit ☐Cut
TYPE OF WASTEWATER: ☑Sewage ☐Industrial Process ☐Mixed

PROFILE #	5100-2-102 1940 Landscape Position/ Slope %	Horizon Depth (IN.)	SOIL MORPHOLOGY (1941) 1941 STRUCTURE/ TEXTURE	1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS 1942 SOIL WETNESS/ COLOR	1943 SOIL DEPTH	1956 SAPRO CLASS	1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-6"	gr l cl	Fr l SE xP l ss l sp	7.5B" TO soil wetness	23"	US	None	US
		6-23"	AB H l SAH l C	VF.l Mixed/ US/ UP					
		23-48"	M l cl	F-l SE xP l ss l sp					
		48-58"	M l sc l	Fr l SE xP l ss l sp					
2	LS	0-6"	gr l cl	Fr l SE x P l ss l sp	7.5B" TO soil wetness	20"	US	None	US
		6-20"	SA M l C	VF.l Mixed/ US/ UP					
		20-60"	M l cl	VF.l SE xP l ss l sp					
3	LS	0-4"	gr l cl	Fr l SE xP l ss l sp	7.5B" TO soil wetness	18"	US	None	US
		4-18"	SA H l C	VF.l Mixed/ US/ UP					
		18-46"	M l sc l	F.l Mixed/ US/ UP					
		46-56"	M l cl	Fr l SE xP l ss l sp					
4	LS	0-7"	gr l cl	Fr l SE xP l ss l sp	7.5B" TO soil wetness	18"	US	None	US
		7-18"	SA H l C	VF.l Mixed/ US/ UP					
		18-60"	M l sc l	Fr l SE xP l ss l sp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	US	US
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): Unsuitable
EVALUATED BY: W. A. Merlin LSS 3-17-01
OTHER(S) PRESENT: R. Herr

FILE # 45430

COMMENTS Well Repair

LANDSCAPE POSITION	GROUP	TEXTURE	.1955 LTAR
R-RIDGE	I	S-SAND	1.2-0.8
S-SHOULDER SLOPE		LS-LOAMY SAND	
L-LINEAR SLOPE			
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8-0.6
N-NOSE SLOPE		L-LOAM	
H-HEAD SLOPE			
CC-CONCLAVE SLOPE	III	SI-SILT	0.6-0.3
CV-CONVEX SLOPE		SICL-SILTY CLAY LOAM	
T-TERRACE		CL-CLAY LOAM	
FP-FLOOD PLAIN		SCL-SANDY CLAY LOAM	
	IV	SC-SANDY CLAY	0.4-0.1
		SIC-SILTY CLAY	
		O-ORGANIC	

CONSISTENCE MOIST	WET
VFR-VERY FRIABLE	NS-NON-STICKY
FR-FRIABLE	SS-SLIGHTLYSTICKY
FI-FIRM	S-STICKY
VFI-VERY FIRM	VS-VERY STICKY
EFI-EXTREMELY FIRM	NP-NON-PLASTIC
	SP-SLIGHTLYSTICKY
	P-PLASTIC
	VP-VERY PLASTIC

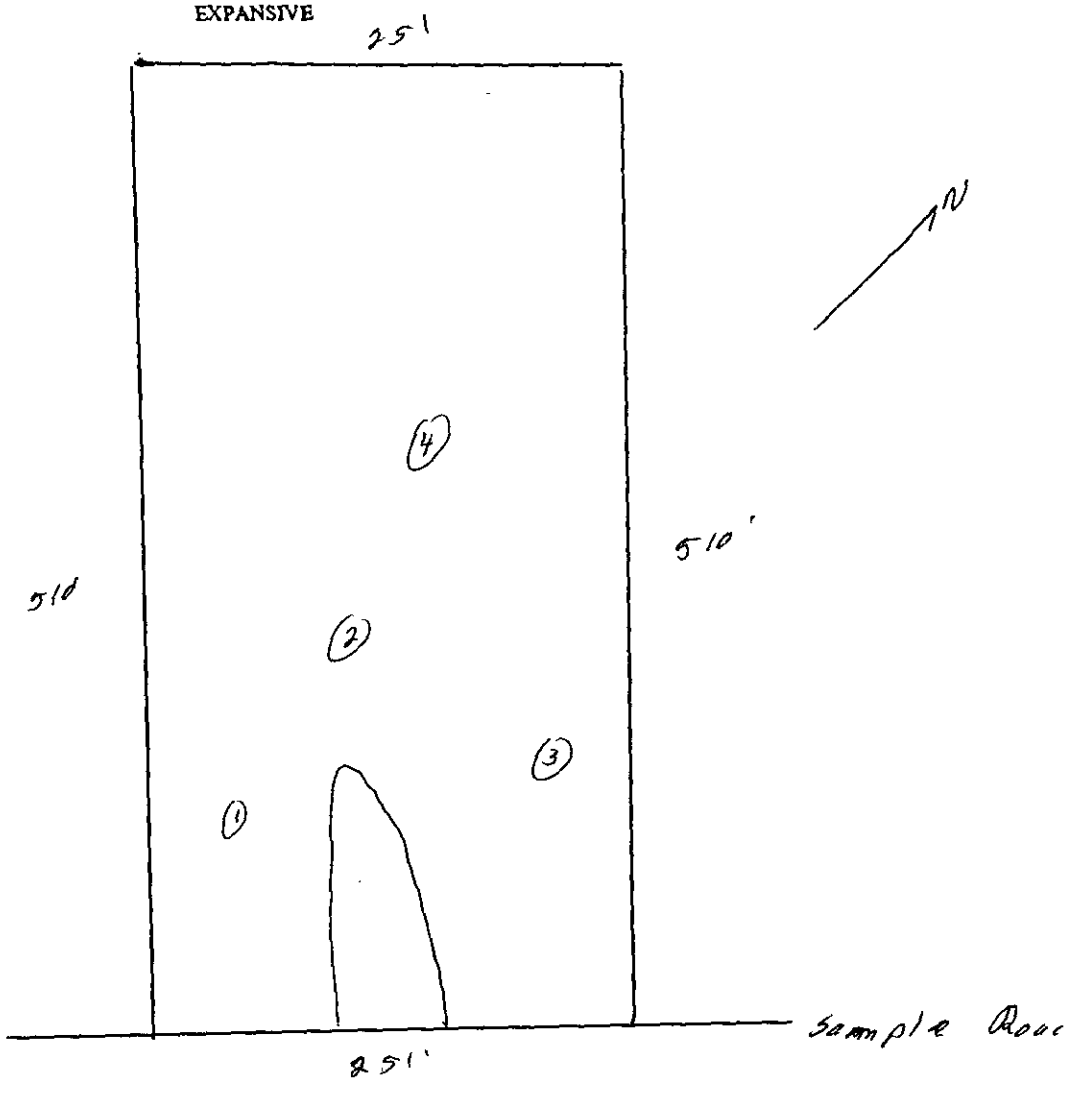
STRUCTURE

SG-SINGLE GRAIN
M-MASSIVE
CR-CRUMB
GR-GRANULAR
SBK-SUBANGULAR BLOCKY
ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



DEH[redacted]OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIV[redacted]ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

#2

Sheet: _____
Property ID: PO 023-042-03
Lot #: _____
File #: 45433

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Robert L. Kerr APPLICANT: _____
ADDRESS: 3640 Calloway Lane, Charlotte DATE EVALUATED: 3-5-01
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 420gpd PROPERTY SIZE: 1.0
LOCATION OF SITE: 7301 Sample Road PROPERTY RECORDED: _____
WATER SUPPLY: ☒Private ☐Public ☐~~Well~~ ☐Spring ☐Other _____
EVALUATION METHOD: ☒~~Augur Boring~~ ☐Pit ☐Cut
TYPE OF WASTEWATER: ☐~~Sewage~~ ☐Industrial Process ☐Mixed

PROFILE #	3 to 15% 5-15% .1940 Landscape Position/ Slope %	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-3"	gr/lcl	Fr/SEXPl SS/SP	720" to soil wetness	20"	N/A	None	US
		3-20"	SBK/C	VF:/Mixed/ US/VP					
2	LS	0-4"	gr/lcl	Fr/SEXPlSS/SP	> 30" to soil wetness	30"	N/A	None	US
		4-30"	SBK/C	VF:/Mixed/ US/VP					
3	LS	0-3"	gr/lcl	Fr/SEXPl SS/SP	720" to soil wetness	20"	N/A	None	US
		3-20"	SBK/C	VF:/Mixed/ US/VP					
4	LS	0-2"	gr/lcl	Fr/SEXPl SS/SP	714" to soil wetness	14"	N/A	None	US
		2-14"	SBK/C	VF:/Mixed/ US/VP					
5	LS	0-3"	gr/lcl	Fr/SEXPl SS/SP	724" to soil wetness	24"	N/A	None	US
		3-24"	SBK/C	VF:/Mixed/ US/VP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	US	US
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): Unsuitable
EVALUATED BY: W. A. Marlin LSS 3-6-01
OTHER(S) PRESENT: _____

FILE # 45438

COMMENTS 100% Repair

LANDSCAPE POSITION	GROUP	TEXTURE	.1955 LTAR
R-RIDGE	I	S-SAND	1.2-0.8
S-SHOULDER SLOPE		LS-LOAMY SAND	
L-LINEAR SLOPE			
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8-0.6
N-NOSE SLOPE		L-LOAM	
H-HEAD SLOPE			
CC-CONCLAVE SLOPE	III	SI-SILT	0.6-0.3
CV-CONVEX SLOPE		SICL-SILTY CLAY LOAM	
T-TERRACE		CL-CLAY LOAM	
FP-FLOOD PLAIN		SCL-SANDY CLAY LOAM	
	IV	SC-SANDY CLAY	0.4-0.1
		SIC-SILTY CLAY	
		O-ORGANIC	

CONSISTENCE

MOIST	WET
VFR-VERY FRIABLE	NS-NON-STICKY
FR-FRIABLE	SS-SLIGHTLYSTICKY
FI-FIRM	S-STICKY
VFI-VERY FIRM	VS-VERY STICKY
EFI-EXTREMELY FIRM	NP-NON-PLASTIC
	SP-SLIGHTLYSTICKY
	P-PLASTIC
	VP-VERY PLASTIC

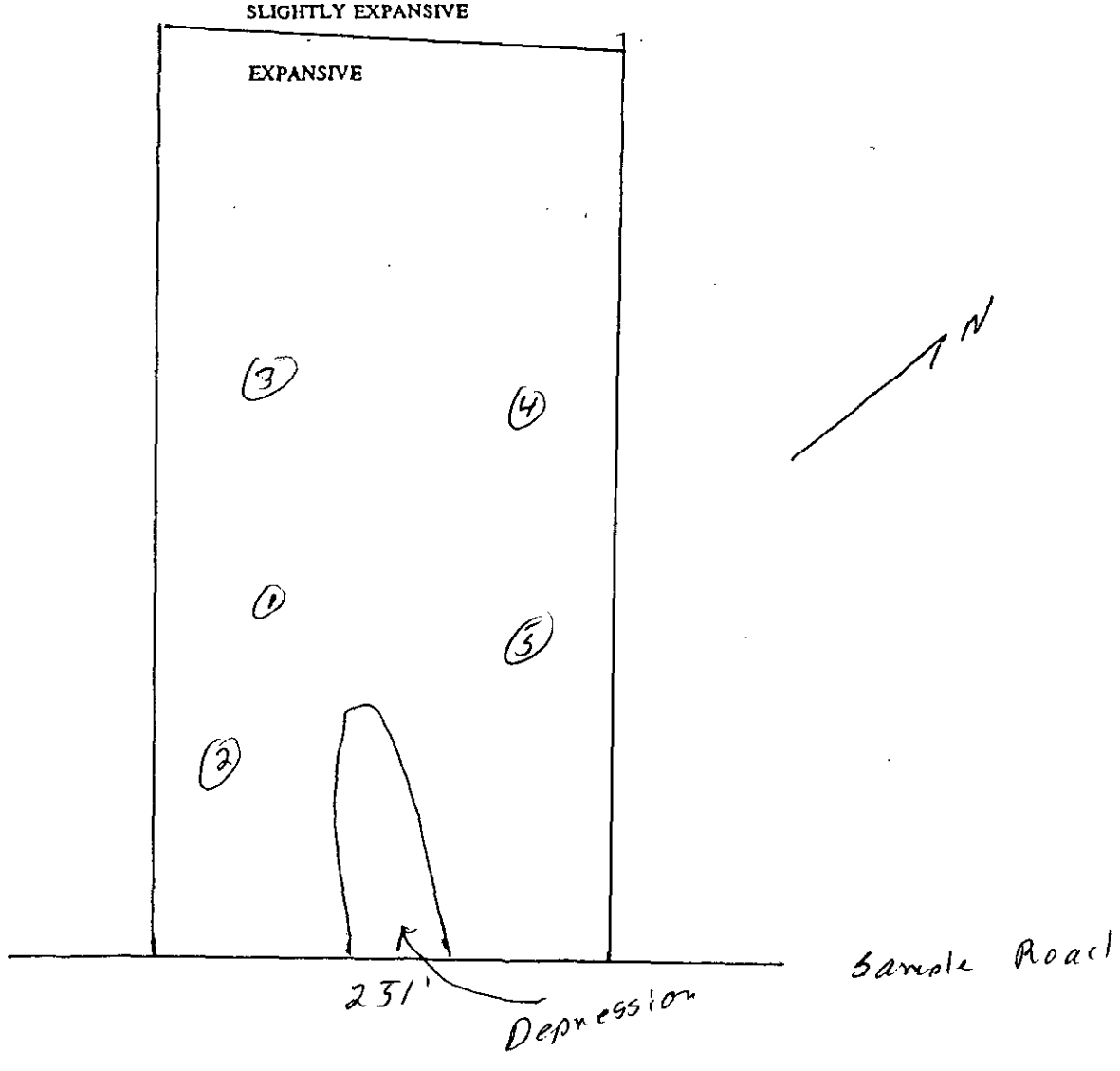
STRUCTURE

SG-SINGLE GRAIN
M-MASSIVE
CR-CRUMB
GR-GRANULAR
SBK-SUBANGULAR BLOCKY
ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

WASTEWATER TREATMENT AND DISPOSAL SYSTEM DESIGN AGREEMENT: 15A NCAC 18A .1948 AND ANY OF THE FOLLOWING RULES: .1956; .1957(a); .1957(b); or .1957(c); OR .1969

FOR REGISTRATION JUDITH A. GIBSON
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC
2001 JUN 06 02:38 PM
BOOK: 12314 PAGE: 517-520 FEE: $12.00
INSTRUMENT # 2001092719

FILE # 4543B
PARCEL # 023 042 03

The undersigned, ROBERT L. KERR, owner of property located at 7301 Sample Road, (the "site") and described in an instrument recorded in Book 12050 at Page 802-805 Mecklenburg Public Registry, hereby acknowledges that the undersigned applied to the Mecklenburg County Health Department (the "Department") for a permit to install a septic tank sewage disposal system on the site; that the Department evaluated the site for suitability for such a system in accordance with the regulations promulgated by the North Carolina Commission for Health Services as 15A NCAC 18A .1900 et seq.; that the Department originally classified the site as "unsuitable" pursuant to the standards set forth in the regulations; that the undersigned requested that the Department reclassify the site as "provisionally suitable" in light of the particular septic tank system proposed by the undersigned; that the Department considered various studies, data, and other information which indicate to the Department that the septic tank system proposed by the undersigned is allowed by the rules; and that the Department therefore reclassified the site as "provisionally suitable" and issued an appropriate permit for such proposed septic tank system.

The undersigned further acknowledges that the proper design, construction, operation and maintenance of such septic tank system is the responsibility of the designer, owner, developer, installer, or user of the system, as applicable, and that neither the Department nor its officials, employees, or agents warrant or guarantee that the said system installed pursuant to the permit issued by the Department will function in a satisfactory manner for any given period of time or that the Department, its officials, employees or agents assume any liability for any damages of any kind which are caused, or which may be caused, by a malfunction of such system.

The undersigned further acknowledges that the following conditions will apply to the site:

- Any changes on the property may make the Improvement Permit Null and void and may make the Improvement Permit subject to revocation.

This instrument was prepared by: Robert Kerr
Mail after recording to: 3640 Cowboy Lane
Charlotte NC 28216

- Do not grade, cut, fill, pave, construct a building or deck, dig a well, install a swimming pool or otherwise cover or disturb the soil (except for planting and maintaining grass or other ground covers) in a manner which will adversely affect the repair area or area where the septic tank system is located.

- When a private certified operator is required, no improvement permit for the designated repair shall be issued unless there is a private certified operator to carry out this management program in the service area where the proposed system is to be located. (Refer to Rule .1961, "Maintenance of Sewage Systems," for further information.)

- Additional fees will be required according to the Mecklenburg County user fee schedule applicable at the time for the issuance of a repair permit for any subsequent repairs to the sewage treatment and disposal system or for installation of a replacement system.

- At the time repairs to the sewage treatment and disposal system are to be made or a replacement system installed, the regulations in effect at that time will govern the repairs or installation of a replacement system.

The undersigned further agrees for himself, his heirs and assigns that he shall indemnify and hold harmless the Department, its employees, and officials, as well as Mecklenburg County and its employees and officials, for any damages or other claims of any person or persons whatsoever arising out of the installation, operation, or failure of said septic tank system.

Use of the singular masculine pronoun forms herein shall be deemed to also include the plural and feminine forms as the context may require.

This document shall be placed on the public records of the Register of Deeds of Mecklenburg County and indexed therein under the Grantor Index in the name or names of the undersigned, and the foregoing acknowledgements shall henceforth be binding on all persons claiming any right, title, or interest in the site.

IN WITNESS WHEREOF, the undersigned has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, this _____ day of _____, 199__.

_____ Robert Kerr (SEAL)
(Corporate Name)

_____ (SEAL)

By: _____ _____ (SEAL)

_____ President _____ (SEAL)

ATTEST:

_____

_____ Secretary

(Corporate Seal)

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg

I, Chris Bryant, a Notary Public for said County and State, do hereby certify that ROBERT KERR (NCDOT) personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

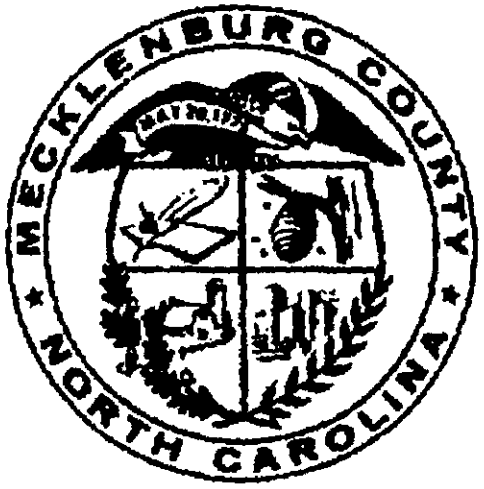
WITNESS my hand and notarial seal, this 6 day of June, 2001

Chris Bryant
Notary Public

My Commission Expires:
7-10-05

CHRIS BRYANT NOTARY PUBLIC MECKLENBURG COUNTY, N. C.

RBCWM:24751_1/8-30-95



JUDITH A. GIBSON
REGISTER OF DEEDS , MECKLENBURG COUNTY
COUNTY & COURTS OFFICE BUILDING
720 EAST FOURTH STREET
CHARLOTTE NC 28202

****

Filed For Registration: 06/06/2001 02:38 PM

Book: RE 12314 Page: 517-520

Document No.: 2001092719

PRMIT 4 PGS $12.00

Recorder: EMEM DREHER

****

State of North Carolina, County of Mecklenburg

The foregoing certificate of CHRIS BRYANT Notary is certified to be correct. This 6TH of June 2001

JUDITH A. GIBSON, REGISTER OF DEEDS By: _____
Deputy/Assistant Register of Deeds

****



2001092719

S&EC

Soil & Environmental Consultants, Inc.

710 Boston Road ■ Taylorsville, North Carolina 28681 ■ Phone: (828) 635-5820 ■ Fax: (828) 635-5820
Web Page: www.SandEC.com

May 18, 2001
Project # 2-1411

Lore Kerr
3640 Cowboy Lane
Charlotte, NC 28216

Re: .1948d proposal for 3.0-Acre Site on Sample Road, in Mecklenburg County, NC.

Dear Mr. Kerr:

On April 12, 2001, Soil & Environmental Consultants, Inc. (S&EC) performed a preliminary soil and site evaluation as well as saturated hydraulic conductivity (Ksat) measurements on the above referenced tract. This was performed at your request as part of the preliminary planning process in order to determine areas of soil that have potential for subsurface wastewater disposal. Ksat measurements were made in order to seek approval via rule .1948d NC Laws and Rules for Sewage Treatment and Disposal Systems for an area classified as unsuitable for subsurface disposal. S&EC returned to the property on May 16th to meet with Bill Marlin of the Mecklenburg County Health Department to discuss various septic system criteria (loading rate, soil characteristics, type of systems that could potentially be utilized, etc.). At that time, an on-ground layout of the proposed system and repair was performed in order to determine if adequate area was available on the property for system and repair.

S&EC traversed the property and observed landforms (slope, drainage patterns, past use, etc.) as well as soil conditions (depth, texture, structure, seasonal wetness, restrictive horizons, etc.) through the use of hand auger borings. The site was evaluated during dry soil conditions. From these observations, an evaluation of the site, relative to subsurface disposal of wastewater, was developed. Soil areas were estimated in the field. The soil/site evaluation criteria used is that contained in 15 A NCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems".

FINDINGS

This site is located in the Piedmont region of Mecklenburg County. The soils on the tract are mapped in the Mecklenburg County Soil Survey as Enon (Fine, mixed, active, thermic Ultic Hapludalfs) and Mecklenburg (Fine, mixed, active, thermic Ultic Hapludalfs) soil series. Both soils have a sandy loam surface over a clay subsurface. These soils are at least 24 inches deep to a restrictive horizon and are generally usable for an ultra-shallow conventional or a low-pressure pipe septic system. The most common restrictive horizon on the tract was unsuitable saprolite that had a clay loam texture.

Although the home was not staked, you indicated a desire to put the home in the middle of the property, with the drain field being gravity fed to the area towards the road. The accompanying sketch map indicates the location of the property, backhoe pits, soil borings (HA1-HA7) and Ksat measurement sites. The map also shows the proposed septic system layout and repair area. These locations were recorded using Global Positioning System (GPS) for spatial purposes.

GENERAL WASTEWATER CONSIDERATIONS

Once potentially useable areas are located, the next consideration is the horizontal extent of those areas. The size and configuration of the useable soil area dictate the utility of that area. The size of a subsurface disposal field is determined by: 1) design flow from the source (in residences this is determined by the number of bedrooms, e.g. 120 gallons per day per bedroom) and 2) the long-term acceptance rate (LTAR) of the soil (based on the hydraulic conductivity of the soil, a function of the soil's texture, mineralogy, structure, porosity, etc.). The configuration must be such that an efficient layout of disposal lines (on contour) is possible. An additional consideration is the required setbacks for the system from various elements such as wells (100'), streams and ponds (50'), property lines (10'), top of embankment (15'), watershed buffers, etc. (see Attachment 1).

This report discusses the general location of potentially useable soils for on-site subsurface wastewater disposal and, of course, does not constitute or imply any approval or permit as needed by the client from the local heath department. S&EC is a professional consulting firm that specializes in the delineation of soil areas for wastewater disposal and the layout and design of wastewater treatment systems. As a professional consulting firm, S&EC is hired for its professional opinion in these matters. The rules governing wastewater treatment (interpreted and governed by local and state agencies) are evolving constantly, and in many cases, affected by the opinions of individuals employed by these governing agencies. Because of this, S&EC cannot guarantee that areas delineated and/or systems designed will be permitted by the governing agencies.

The site plan for the lot must ensure that adequate soil area for system and repair is unaffected by site elements (house placement, driveway, wells, patios, decks, etc.) on that or adjacent lots. The area ultimately designated by the health department on the site plan for the septic system and repair must remain undisturbed (no mechanical clearing, excavation, heavy traffic or other significant site disturbing activities) until authorized by the health department. A lot with initially adequate useable soil area may be rendered unusable as a result of improper site planning and/or disturbance.

Hydraulic Conductivity

Saturated hydraulic conductivity of the unsaturated zone was measured using a constant head permeameter. The methods used in these measurements were similar to those described in Methods of Soil Analysis, Part 1., Chapter 29 - Hydraulic Conductivity of Saturated Soils: Field Methods, 29 - 3.2 Shallow Well Pump In Method, pp. 758-763 and in the Soil Science Society of America Journal, Vol. 53, no. 5, Sept. - Oct. 1989, "A Constant-head Permeameter for Measuring Saturated Hydraulic Conductivity of the Vadose Zone" and "comparison of the Glover Solution with the Simultaneous - Equations Approach for Measuring Hydraulic Conductivity." The results of these tests are shown in Table 1.

Results

A total of nine in-situ conductivities were measured on the property at five different sites. All measurements were made in the Bt-horizon, either at a shallow depth (<24"), or a deeper depth (>24"). The results are listed in Table 1. Several soil profile descriptions were also performed on site by utilizing both pits and hand auger borings. These descriptions are listed in Table 2.

The saturated hydraulic conductivity's (Ksats) of the Bt1 horizon was measured at all five sites. The depth of the Ksat measurements ranged from 8-24 inches. The results for this horizon ranged from 1.83 to 10.71 gpd/ft^2 with an average of 5.11 gpd/ft^2. The Ksat of the Bt2 horizon was

measured at sites 1 and 4 at depths between 24 and 45 inches. The results ranged between 0.94 and 4.00 gpd/ft^2, with an average of 2.71 gpd/ft^2.

The state will typically allow you to utilize 10 percent of the measured Ksat on untreated effluent. If the effluent is pretreated (i.e. sand filter or peat filter), the state will typically allow a higher percentage of the Ksat to be utilized. Ten percent of the Bt2 horizon would allow a flow of 0.27 gpd/ft^2. During the site meeting with Bill Marlin, he recommended a LTAR of 0.25 gpd/ft^2, this LTAR seems appropriate due to the variability of soils at this site.

We are proposing to utilize an ultra-shallow conventional septic system for both the initial system and repair. This system will utilize a 12" trench depth with 6" of fill on the surface. The initial system will consist of the first four lines at 120 feet each. A copy of the layout is attached to this report.

Soil & Environmental Consultants, Inc. is pleased to be of service in this matter and we look forward to assisting in any site analysis needs you may have in the future. Please feel free to call with any questions or comments.

Sincerely,



NC Licensed Soil Scientist

Encl: Attachment 1
Soil Suitability Map

cc: Philo Walker (704) 336-6894

Attachment 1

.1950 Location of Sanitary Sewage Systems

(c) Every sanitary sewage treatment and disposal system shall be located at least the minimum horizontal distance from the following:

(1)	any private water supply source including a well or spring	100 feet
(2)	any public water supply source	100 feet
(3)	streams classified as WS-I	100 feet
(4)	water classified as S.A.	100 feet from mean high water mark
(5)	Other coastal waters	50 feet from mean high water mark
(6)	any other stream, canal, marsh, or other surface waters	50 feet
(7)	any Class I or Class II reservoir	100 feet from normal pool elevation
(8)	any permanent storm water retention pond	50 feet from flood pool elevation
(9)	any other lake or pond	50 feet from normal pool elevation
(10)	any building foundation	5 feet
(11)	any basement	15 feet
(12)	any property line	10 feet
(13)	top of slope of embankments or cuts of 2 feet or more vertical height	15 feet
(14)	any water line	10 feet
(15)	drainage systems:	
	(A) Interceptor drains, foundation drains and storm water diversions	
	(i) upslope	10 feet
	(ii) sideslope	15 feet
	(iii) downslope	25 feet
	(B) Groundwater lowering ditched and devices	25 feet
(16)	any swimming pool	15 feet
(17)	any other nitrification field (except repair area)	20 feet

(b) Ground absorption, sewage treatment and disposal systems may be located closer than 100 feet from a private well supply, except springs and uncased wells located downslope and used as a source of drinking water, repairs, space limitations and other site-planning considerations but shall be located the maximum feasible distance and, in no case, less than 50 feet.

(c) Nitrification fields and repair areas shall not be located under paved areas or areas subject to vehicular traffic. If effluent is to be conveyed under areas subject to vehicular traffic, ductile iron or its equivalent pipe shall be used. However, pipe specified in Rule .1955 (e) may be used if a minimum of 30 inches of compacted cover is provided over the pipe.

Note: Systems over 3000 GPD or an individual nitrification fields with a capacity of 1500 GPD or more have more restrictive setback requirements, see .1950 (a) (17) (d) for specifics.

Table 1
Sample Road Ksats

Site 1

Horizon	Depth (in)										
Bt1	11-18	Ksat	>	0.31	cm/hr	~	2.93	in./day	~	**1.83**	gpd/sq. ft
Bt2	24-30	Ksat	>	0.16	cm/hr	~	1.51	in./day	~	**0.94**	gpd/sq. ft
Bt2	37-45	Ksat	>	0.54	cm/hr	~	5.10	in./day	~	**3.18**	gpd/sq. ft

Site 2

Horizon	Depth (in)										
Bt1	11-19	Ksat	>	0.6	cm/hr	~	5.67	in./day	~	**3.53**	gpd/sq. ft

Site 3

Horizon	Depth (in)										
Bt1	8-14	Ksat	>	1.03	cm/hr	~	9.73	in./day	~	**6.06**	gpd/sq. ft
Bt1	14-20	Ksat	>	1.82	cm/hr	~	17.20	in./day	~	**10.71**	gpd/sq. ft

Site 4

Horizon	Depth (in)										
Bt1	9-15	Ksat	>	0.86	cm/hr	~	8.13	in./day	~	**5.06**	gpd/sq. ft
Bt2	26-32	Ksat	>	0.68	cm/hr	~	6.43	in./day	~	**4.00**	gpd/sq. ft

Site 5

Horizon	Depth (in)										
Bt1	16-24	Ksat	>	0.59	cm/hr	~	5.58	in./day	~	**3.47**	gpd/sq. ft

Average value of Ksats of Bt1 horizon	**5.11**	**gpd/sq ft**
Average value of Ksats of Bt2 horizon	**2.71**	**gpd/sq ft**

Table 2
Sample Road Descriptions

Pit 1

Horizon	Depth (in.)	Color	Structure	Texture
A	0-9	5YR 3/3	granular	sandy loam
Bt1	0-17	2.5YR 4/6	subangular blocky	clay
Bt2	17-33	2.5YR 3/6	subangular blocky	clay
BC	33-45	5YR 4/6 with 10YR 6/6 mottles	subangular blocky	clay
C	45-65+	2.5YR 4/6 with 10YR 6/8 and 2.5 YR 4/4 mottles	structureless	sandy clay loam

4" rock floater at 36"

Pit 2

Horizon	Depth (in.)	Color	Structure	Texture
A	0-7	5YR 3/3	granular	sandy loam
Bt1	7-16	2.5YR 4/6	subangular blocky	clay
Bt2	16-28	7.5YR 4/4	subangular blocky	clay
BC	28-33	5YR 4/6 with 10YR 6/4 and 2.5YR 4/4	subangular blocky	clay
C	33-67+	7.5YR 4/6 with 5YR 4/6 and 10YR 6/8 mottles	structureless	sandy clay loam

Pit 3

Horizon	Depth (in.)	Color	Structure	Texture
A	0-9	5YR 3/3	granular	sandy loam
Bt1	9-23	2.5YR 4/6	subangular blocky	clay
BC	23-35	5YR 4/4	subangular blocky	clay
		with 10YR 6/6 and 2/5YR 4/4 mottles	subangular blocky	clay
C	35-65+	7.5YR 4/6 with 5YR 4/6 and 10YR 6/8 mottles	structureless	sandy clay loam

HA-1

Horizon	Depth (in.)	Color	Structure	Texture
A	0-8	10YR 3/3	granular	loam
Bt	8-21	2.5YR 4/6	subangular blocky	clay
BC	21-29	5YR 4/6 with 10YR 6/6 mottles	subangular blocky	clay
C	20-48+	2.5YR 4/6 with 5YR 4/6 mottles	clay loam	structureless

HA-2

Horizon	Depth (in.)	Color	Structure	Texture
A	0-10	10YR 3/3	granular	sandy loam
BC	10-24	5YR 4/6 10YR 6/8	subangular blocky	sandy clay
C	24-48+	2.5YR 4/6 2.5YR 4/4	structureless	clay loam

Table 2
Sample Road Descriptions

HA-3

Horizon	Depth (in.)	Color	Structure	Texture
A	0-9	10YR 3/3	granular	sandy loam
Bt	9-23	2.5YR 4/6	subangular blocky	clay
BC	23-33	10YR 6/6	subangular blocky	clay
C	33-48+	2.5YR 4/6	structureless	clay loam
		with 2.5 YR 4/4 and 5YR 4/6 mottles		

HA-4

Horizon	Depth (in.)	Color	Structure	Texture
A	0-8	10YR 3/3	granular	loam
Bt1	8-20	2.5YR 4/6	subangular blocky	clay
Bt2	20-32	2.5YR 3/6	subangular blocky	clay
BC	32-44	10YR 6/6	subangular blocky	clay
		with 2.5 YR 4/4 and 5YR 4/6 mottles		
C	44-48+	7.5YR 4/6	structureless	clay loam
		with 5YR 4/6 and 10YR 6/8 mottles		

HA-5

Horizon	Depth (in.)	Color	Structure	Texture
A	0-6	5YR 3/3	granular	sandy loam
Bt	6-17	2.5YR 4/6	subangular blocky	clay
Bt2	17-45	7.5YR 4/4	subangular blocky	clay
BC	45-48+	10YR 6/6	subangular blocky	clay
		with 2.5 YR 4/6 mottles		

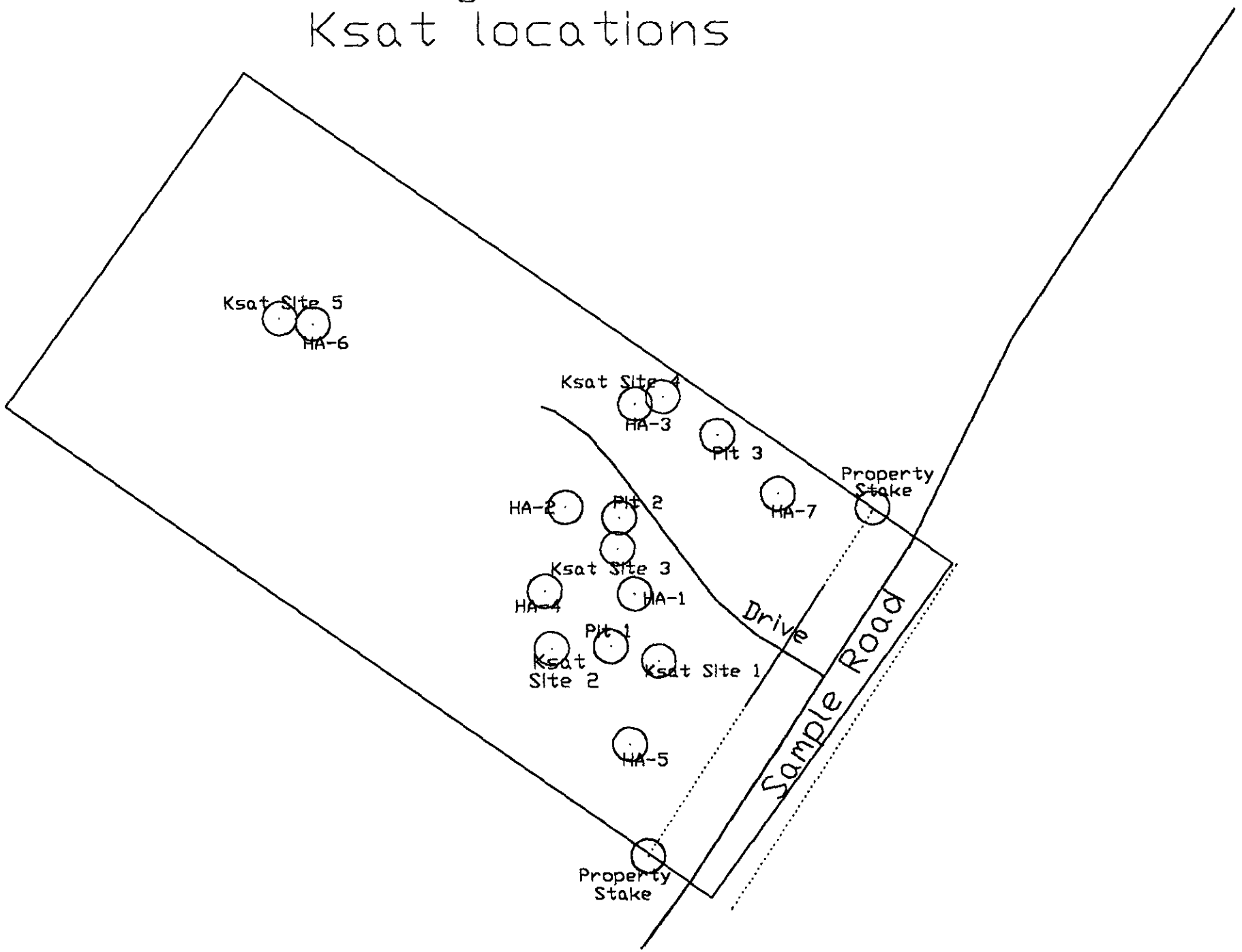
HA-6

Horizon	Depth (in.)	Color	Structure	Texture
A	0-10	5YR 3/3	granular	sandy loam
Bt1	10-17	2.5YR 4/6	subangular blocky	clay
BC	17-27	2.5YR 3/6	subangular blocky	clay
C	27-48+	2.5YR 4/6	structureless	sandy clay loam
		with 2.5 YR 4/4 mottles		

HA-7

Horizon	Depth (in.)	Color	Structure	Texture
A	0-8	5YR 3/3	granular	sandy loam
Bt1	8-19	2.5YR 4/6	subangular blocky	clay
Bt2	19-30	7.5YR 3/6	subangular blocky	clay
BC	30-40	10YR 6/6	subangular blocky	clay
C	40-48+	2.5YR 4/6	structureless	sandy clay loam
		with 2/5YR 4/4 and 10YR 6/6 mottles		

Borings and Ksat locations



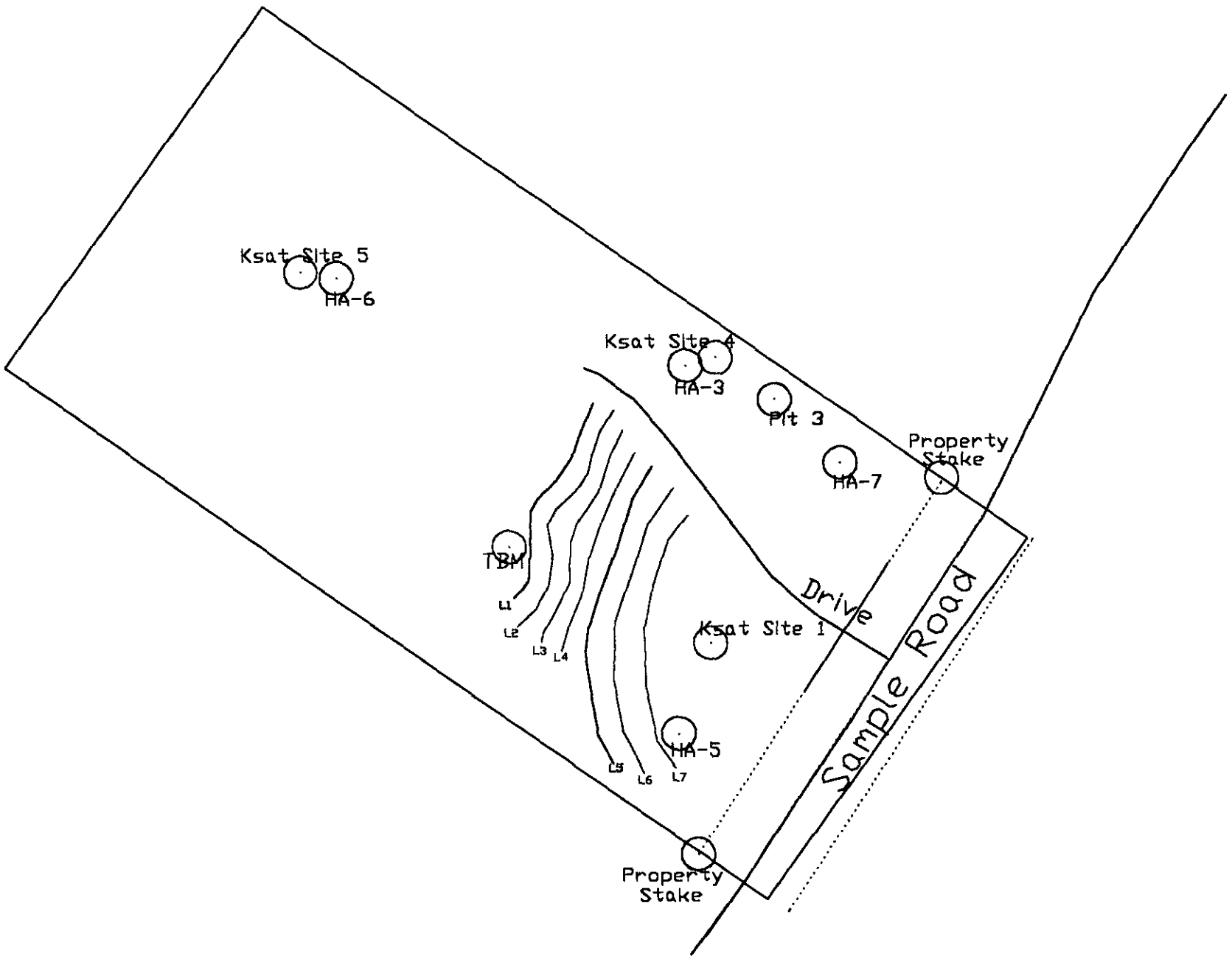
Proposed Layout

Client:	Lore Kerr
Project Name:	Sample Road 3 acres
Project Number:	2-1411
Estimated Design Daily Flow:	360 gpd
System Type:	ultra-shallow conventional

Line #	Color	Rod Reading	Relative Elevation	Line Length (ft)	Will Utilize	System or Repair
1	red	1.7	98.95	123	120	system
2	yellow	2.3	98.35	140	120	system
3	pink	3.35	97.3	130	120	system
4	orange	4.15	96.5	121	120	system
5	red	4.9	95.75	178		repair
6	yellow	5.6	95.05	170		repair
7	pink	6.5	94.15	156		repair
TBM		0.65	100			
			Total Line Length	1018 ft.		

System line length:	480 ft.	LTAR~	.25 gpd/sq.ft.
Repair line length:	504 ft.		

Layout


Ksat Site 5
HA-6
Ksat Site 4
HA-3
Pit 3
HA-7
Property Stake
TBM
L1
L2
L3
L4
L5
L6
L7
Ksat Site 1
HA-5
Drive
Sample Road
Property Stake

Mecklenburg County
Health Department

March 15, 2001

Robert L. Kerr
3640 Cowboy Lane
Charlotte, NC 28216

Re: Application for improvement permit for Mr. Kerr
Property Site: 7301 Sample Road
Health Department file no. 4543B

Dear Property Owner or Owner's Agent:

The Mecklenburg County Health Department, Environmental Health Division on March 12, 2001 evaluated the above-referenced property at the site designated on the plat/site plan that accompanied your improvement permit application. According to your application the site is to serve a 4-bedroom residence, with a design wastewater flow of ___480____gallons per day. The evaluation was done in accordance with the laws and rules governing wastewater systems in North Carolina General Statute 130A-333 and related statutes and Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rule .1900 and related rules.

Based on the criteria set out in Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rules .1940 through .1948, the evaluation indicated that the site is **UNSUITABLE for** a ground absorption sewage system. Therefore, your request for an improvement permit is **DENIED.** A copy of the site evaluation is enclosed. The site is unsuitable based on the following:

_____ Unsuitable soil topography and/or landscape position (Rule .1940)
____X___ Unsuitable soil characteristics (structure or clay mineralogy) (Rule .1941)
_____ Unsuitable soil wetness condition (Rule .1942)
____X____ Unsuitable soil depth (Rule .1943)
_____ Presence of restrictive horizon (Rule .1944)
____X____ Insufficient space for septic system and repair area (Rule .1945)
_____ Unsuitable for meeting required setbacks (Rule .1950)
_____ Other (Rule .1946)

For the reasons set out above, the property is currently classified **UNSUITABLE,** and an improvement permit shall not be issued for this site in accordance with Rule .1948 (c).

However, the site classified as **UNSUITABLE** may be classified as **PROVISIONALLY SUITABLE** if written documentation is provided that meets the requirements of Rule .1948(d). A copy of this rule is enclosed. You may hire a consultant to assist you if you wish to try to develop a plan under which your site could be reclassified as **PROVISIONALLY SUITABLE.**

You have a right to an informal review of this decision. You may request an informal review by the soil scientist or environmental health supervisor at the local health department. You may also request an informal review by the N. C. Department of Environment and Natural Resources regional soil specialist. A request for informal review must be made in writing to the local health department.

You also have a right to a formal appeal of this decision. To pursue a formal appeal, you must file a petition for a contested case hearing with the Office of Administrative Hearings, 6714 Mail Center, Raleigh, NC 27699-6714. To get a copy of a petition form, you may write the Office of Administrative Hearings or call the office at (919) 733-0926. The petition for a contested case hearing must be filed in accordance with the provision of North Carolina General Statutes 130A-24 and 150B-23 and all other applicable provisions of Chapter 150B. N. C. General Statue 130A-335(g) provides that your hearing would be held in the county where your property is located.

Please note: If you wish to pursue a formal appeal, you must file the petition form with the Office of Administrative Hearings **WITHIN 30 DAYS OF THE DATE OF THIS LETTER.** The date of this letter is March 15, 2001. Meeting the 30-day deadline is critical to your right to a formal appeal. Beginning a formal appeal within 30 days will not interfere with any informal review that you might request. Do no wait for the outcome of any informal review if you wish to file a formal appeal.

If you file a petition for a contested case hearing with the Office of Administrative Hearings, you are required by law (N.C. General Statute 150B-23) to send a copy of your petition to the North Carolina Department of Environment and Natural Resources. Send the copy to: Office of General Counsel, N. C. Department of Environment and Natural Resources, 1601 Mail Service Center, Raleigh, NC. 27699-1601. Do **NOT** send the copy of the petition to your local health department. Sending a copy of your petition to the local health department will **NOT** satisfy the legal requirement in N.C. General Statute 150B-23 that you send a copy to the Office of General Counsel, NCDENR.

You may call or write the local health department if you need any additional information or assistance.

Sincerely,

Kelly Randall, R.S.
Authorized Agent - DENR

Encl: (2)

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet: _____

Property ID: P0023-042-03

#3

Lot #: _____

File #: 45433

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Robert L. Kerr APPLICANT: _____

ADDRESS: 3640 Cowboy Trail, Charlotte, NC 28214 DATE EVALUATED: 3-12-01

PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 480gpd PROPERTY SIZE: 2.0

LOCATION OF SITE: 7301 Temple Road PROPERTY RECORDED: _____

WATER SUPPLY: ☑Private ☐Public ☐Well ☐Spring ☐Other _____

EVALUATION METHOD: ☐Augur Boring ☑Pit ☐Cut

TYPE OF WASTEWATER: ☑Sewage ☐Industrial Process ☐Mixed

PROFILE #	3/00 2-10% 1940 Landscape Position/ Slope %	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) 1941 STRUCTURE/ TEXTURE	1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS 1942 SOIL WETNESS/ COLOR	1943 SOIL DEPTH	1956 SAPRO CLASS	1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-6"	gr/cl	Fr/SEXP/SS/SP	758" to soil wetness	23"	US	None	US
		6-23"	AAH/SAH/C	VFi/Mixed//US/UP					
		23-48"	M/cl	Fr/SEXP/SS/SP					
		48-58"	M/SCl	Fr/SEXP/SS/SP					
2	LS	0-6"	gr/cl	Fr/SEXP/SS/SP	760" to soil wetness	20"	US	None	US
		6-20"	SAH/C	VFi/Mixed//US/UP					
		20-66"	M/Cl	VFi/SEXP/SS/SP					
3	LS	0-4"	gr/cl	Fr/SEXP/SS/SP	756" to soil wetness	18"	US	None	US
		4-18"	SAH/C	VFi/Mixed//US/UP					
		18-46"	M/SCl	Fi/Mixed//US/UP					
		46-56"	M/Cl	Fr/SEXP/SS/SP					
4	LS	0-7"	gr/cl	Fr/SEXP/SS/SP	760" to soil wetness	18"	US	None	US
		7-18"	AAH/C	VFi/Mixed//US/UP					
		18-60"	M/SCl	Fr/SEXP/SS/SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	US	US
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____

SITE CLASSIFICATION (.1948): Unsuitable

EVALUATED BY: W. G. Martin LSS 3-13-01

OTHER(S) PRESENT: R. Kerr

FILE # 454313

COMMENTS 1000 Rossi

LANDSCAPE POSITION

R-RIDGE
S-SHOULDER SLOPE
L-LINEAR SLOPE
FS-FOOT SLOPE
N-NOSE SLOPE
H-HEAD SLOPE
CC-CONCLAVE SLOPE
CV-CONVEX SLOPE
T-TERRACE
FP-FLOOD PLAIN

GROUP	TEXTURE	.1955 LTAR
I	S-SAND LS-LOAMY SAND	1.2-0.8
II	SL-SANDY LOAM L-LOAM	0.8-0.6
III	SI-SILT SICL-SILTY CLAY LOAM CL-CLAY LOAM SCL-SANDY CLAY LOAM	0.6-0.3
IV	SC-SANDY CLAY SIC-SILTY CLAY O-ORGANIC	0.4-0.1

CONSISTENCE

MOIST

VFR-VERY FRIABLE
FR-FRIABLE
FI-FIRM
VFI-VERY FIRM
EFI-EXTREMELY FIRM

WET

NS-NON-STICKY
SS-SLIGHTLYSTICKY
S-STICKY
VS-VERY STICKY
NP-NON-PLASTIC
SP-SLIGHTLYSTICKY
P-PLASTIC
VP-VERY PLASTIC

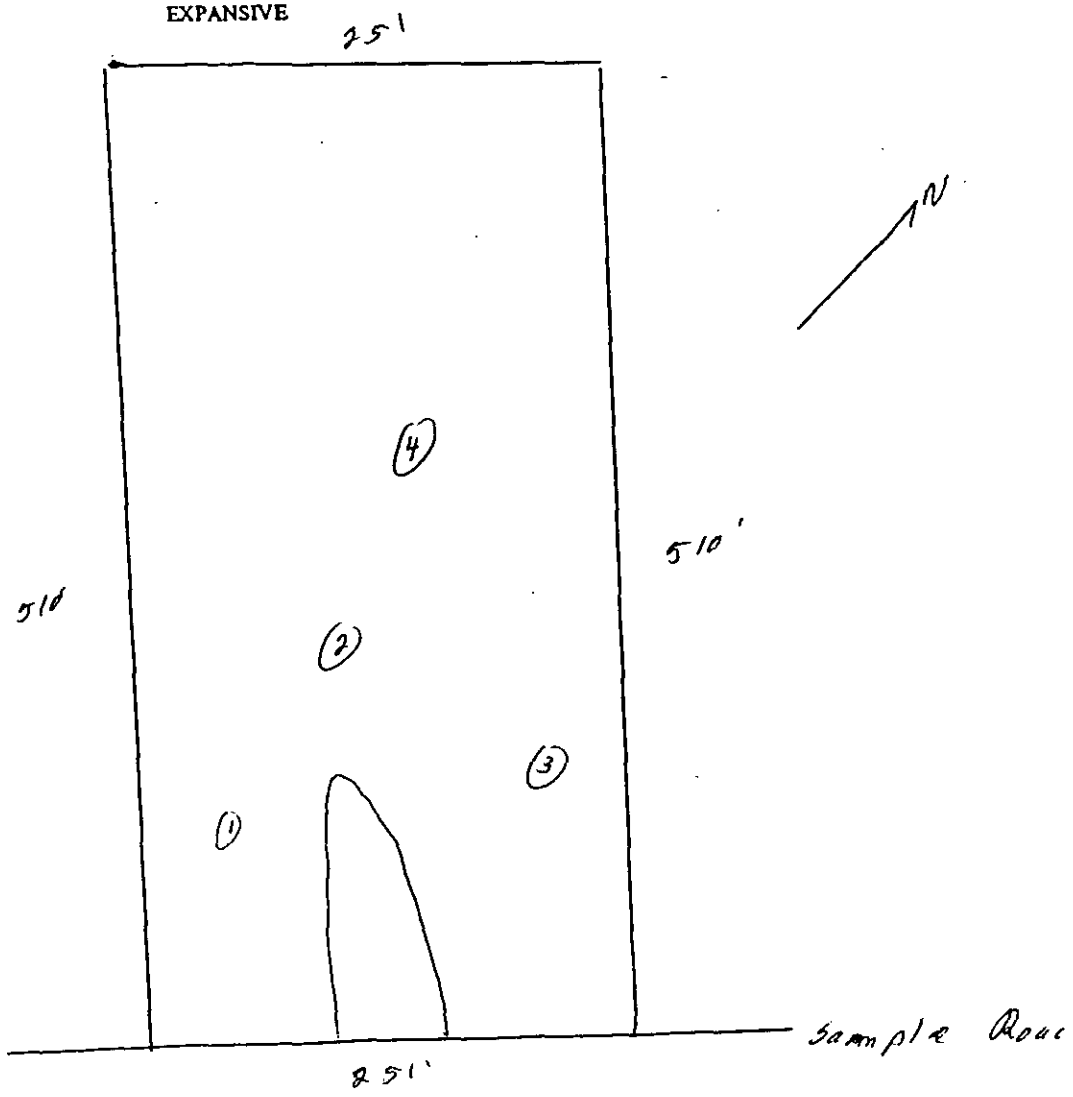
STRUCTURE

SG-SINGLE GRAIN
M-MASSIVE
CR-CRUMB
GR-GRANULAR
SBK-SUBANGULAR BLOCKY
ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



.1946 OTHER APPLICABLE FACTORS

The site evaluation shall include consideration of any other applicable factors involving accepted public health principles, such as, but need not be limited to:

(1) The proximity of a large-capacity water-supply well, the cone of influence of which would dictate a larger separation distance than the minimum distance specified in Rule .1950 of this Section;

(2) The potential public health hazard due to possible failures of soil absorption systems when specifically identified, would dictate larger separation distances than the minimums specified in Rule .1950 and Rule .1955(m) of this Section;

(3) The potential public health hazard of possible massive failures of soil absorption systems proposed to serve large numbers of residences, as in residential subdivisions or mobile home parks;

(4) For sites serving systems designed to handle over 3,000 gallons per day, as determined in Rule .1949 (a) or (b) of this Section, which include one or more nitrification fields with a design flow of greater than 1500 gallons per day, the applicant shall submit sufficient site-specific data to predict the height of the water table mound that will develop beneath the field (level sites) and the rate of lateral and vertical flow away from the nitrification trenches (sloping sites). The data submitted may include soil borings to depths greater than 48 inches, permeability and hydraulic conductivity measurements, water level readings, and other information determined to be necessary by the local health department or the State. The site shall be considered UNSUITABLE if the data indicate that the groundwater mound which will develop beneath the site cannot be maintained two feet or more below the bottom of the nitrification trenches or it is determined that effluent is likely to become exposed on the ground surface within, or adjacent to, the nitrification field.

History Note: *Authority G.S. 130A-335(e);*
Eff. July 1, 1982;
Amended Eff. January 1, 1990.

.1947 DETERMINATION OF OVERALL SITE SUITABILITY

All of the criteria in Rules .1940 through .1946 of this Section shall be determined to be SUITABLE, PROVISIONALLY SUITABLE, or UNSUITABLE, as indicated. If all criteria are classified the same, that classification will prevail. Where there is a variation in classification of the several criteria, the most limiting uncorrectable characteristics shall be used to determine the overall site classification.

History Note: *Authority G.S. 130A-335(e);*
Eff. July 1, 1982;
Amended Eff. January 1, 1990.

.1948 SITE CLASSIFICATION

(a) Sites classified as SUITABLE may be utilized for a ground absorption sewage treatment and disposal system consistent with these Rules. A suitable classification generally indicates soil and site conditions favorable for the operation of a ground absorption sewage treatment and disposal system or have slight limitations that are readily overcome by proper design and installation.

(b) Sites classified as PROVISIONALLY SUITABLE may be utilized for a ground absorption sewage treatment and disposal system consistent with these Rules but have moderate limitations. Sites classified Provisionally Suitable require some modifications and careful planning, design, and installation in order for a ground absorption sewage treatment and disposal system to function satisfactorily.

(c) Sites classified UNSUITABLE have severe limitations for the installation and use of a properly functioning ground absorption sewage treatment and disposal system. An improvement permit shall not be issued for a site which is classified as UNSUITABLE. However, where a site is UNSUITABLE, it may be reclassified PROVISIONALLY SUITABLE if a special investigation indicates that a modified or alternative system can be installed in accordance with Rules .1956 or .1957 of this Section.

(d) A site classified as UNSUITABLE may be used for a ground absorption sewage treatment and disposal system specifically identified in Rules .1955, .1956, or .1957 of this Section or a system approved under Rule .1969 if written documentation, including engineering, hydrogeologic, geologic or soil studies, indicates to the local health department that the proposed system can be expected to function satisfactorily. Such sites shall be reclassified as PROVISIONALLY SUITABLE if the local health department determines that the substantiating data indicate that:

(1) a ground absorption system can be installed so that the effluent will be non-pathogenic, non-infectious, non-

FEE: _____ DATE: 2-26-01

COPY

APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

Paid 2 Ck's Cash Rec'd 3/9/01 Ck.#3541 $100 CRT RF

TYPE APPLICATION: X NEW SYSTEM __ EXPANSION/ ALTERATION OF EXISTING SYSTEM __ REPAIR OF EXISTING SYSTEM

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FILE #: 4543R

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: P.O. 023-042-03

STREET ADDRESS: 7301 SAMPLE RD

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER:

TOWNSHIP (CHECK ONE):

X 0 MECKLENBURG
__ 1 CHARLOTTE
__ 2 DAVIDSON
__ 3 CORNELIUS
__ 4 PINEVILLE
__ 5 MATTHEWS
__ 6 HUNTERSVILLE
__ 7 MINT HILL

CLOSING DATE _____

TYPE OF BUILDING (CHECK ONE):

__ SINGLE MOBILE HOME(S)
__ DOUBLE WIDE (D)
X HOUSE (H)
__ MODULAR HOME (M)
__ MULTIPLE FAMILY (U)
__ OTHER (O)

HEATED SQUARE FOOTAGE: 2400

NUMBER OF BEDROOMS: 4 | NUMBER OF OCCUPANTS: 4

FOUNDATION FOR RESIDENCE:

__ WITHOUT BASEMENT ON SLAB
X CRAWL SPACE
__ WITH BASEMENT /PLUMBING
__ WITH BASEMENT /NO PLUMBING

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: __ YES X NO TYPE: _____

WATER SUPPLY (CHECK ONE):
__ COMMUNITY (C)
__ MUNICIPAL (M)
X PRIVATE WELL (P)
__ SHARED WELL (S)
__ OTHER 'SPRINGS' (O)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES __ YES X NO
EXISTING WASTEWATER SYSTEMS __ YES X NO
EASTMENTS OR RIGHT-OF-WAYS __ YES X NO
WELL, SPRINGS OR WATERLINES __ YES X NO
DESIGNATED WETLANDS __ YES X NO

PROPERTY OWNER:

NAME: (LAST) KERR (FIRST) ROBERT (MI) LORE

ADDRESS: 3640 COWBOY LN

CITY: CHARLOTTE STATE: NC ZIP: 28216

DAYTIME PHONE: (704) 394-7654

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) (FIRST) (MI)

DAYTIME PHONE: ( ) -

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? IN PROCESS

An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Robert Lore Kerr DATE: 2-26-01

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102

A

Check soils

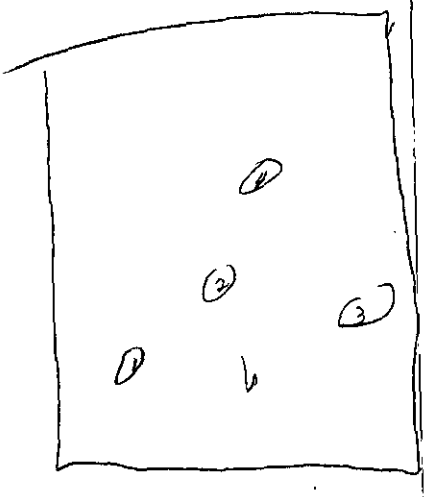
Map Unit

1 - 0-6" grvl l
4 - 23" c mx AD Y sm
27 Hgtl m
40 - 58 scl M

2. 0-6" grvl
4. 20" c sa m
20 lt 60" gl vf. sm

3 1-0-41" l g
4 - 10" sa m t m
10 . 46 scl m s
46 - 56" cl ss

4. 0 - 11" l g
7 - 10 YR c m s
16 60" sltl



DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet: _____

#2 ACS

Property ID: PO 023-042-03

Lot #: _____

File #: 45433

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Robert L. Kerr APPLICANT: _____

ADDRESS: 3640 Cowboy Lane, Charlotte DATE EVALUATED: 3-5-01

PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 420gpd PROPERTY SIZE: 1.0

LOCATION OF SITE: 7301 Sample Road PROPERTY RECORDED: _____

WATER SUPPLY: ☐Private ☐Public ☐Well ☐Spring ☐Other _____

EVALUATION METHOD: ☑Augur Boring ☐Pit ☐Cut

TYPE OF WASTEWATER: ☐Sewage ☐Industrial Process ☐Mixed

PROFILE #	Slopes 5-15% .1940 Landscape Position/ Slope %	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) .1941i STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-3"	gr/lcl	Fr/SEXPlSS/SP	>20" TO soil wetness	20"	N/A	None	US
		3-20"	SBK/C	VFi/Mixed/US/up					
2	LS	0-4"	gr/lcl	Fr/SEXPlSS/SP	>30" TO soil wetness	30"	N/A	None	US
		4-30"	SBK/C	VFi/Mixed/US/up					
3	LS	0-3"	gr/lcl	Fr/SEXPl SS/SP	>20" TO soil wetness	20"	N/A	None	US
		3-20"	SBK/C	VFi/Mixed/US/up					
4	LS	0-2"	gr/scl	Fr/SEXPl SS/SP	>14" TO soil wetness	14"	N/A	None	US
		2-14"	SBK/C	VFi/Mixed/US/up					
5	LS	0-3"	gr/scl	Fr/SEXPl SS/SP	>24" TO soil wetness	24"	N/A	None	US
		3-24"	SBK/C	VFi/Mixed/US/up					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	US	US
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____

SITE CLASSIFICATION (.1948): Unsuitable

EVALUATED BY: W. A. Marlin LSS 3-6-01

OTHER(S) PRESENT: _____

FILE # 4543B

COMMENTS 100E Repeat

LANDSCAPE POSITION	GROUP	TEXTURE	1955 LTAR
R-RIDGE	I	S-SAND	1.2-0.8
S-SHOULDER SLOPE		LS-LOAMY SAND	
L-LINEAR SLOPE			
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8-0.6
N-NOSE SLOPE		L-LOAM	
H-HEAD SLOPE			
CC-CONCLAVE SLOPE	III	SI-SILT	0.6-0.3
CV-CONVEX SLOPE		SICL-SILTY CLAY LOAM	
T-TERRACE		CL-CLAY LOAM	
FP-FLOOD PLAIN		SCL-SANDY CLAY LOAM	
	IV	SC-SANDY CLAY	0.4-0.1
		SIC-SILTY CLAY	
		O-ORGANIC	

CONSISTENCE	
MOIST	WET
VFR-VERY FRIABLE	NS-NON-STICKY
FR-FRIABLE	SS-SLIGHTLYSTICKY
FI-FIRM	S-STICKY
VFI-VERY FIRM	VS-VERY STICKY
EFI-EXTREMELY FIRM	NP-NON-PLASTIC
	SP-SLIGHTLYSTICKY
	P-PLASTIC
	VP-VERY PLASTIC

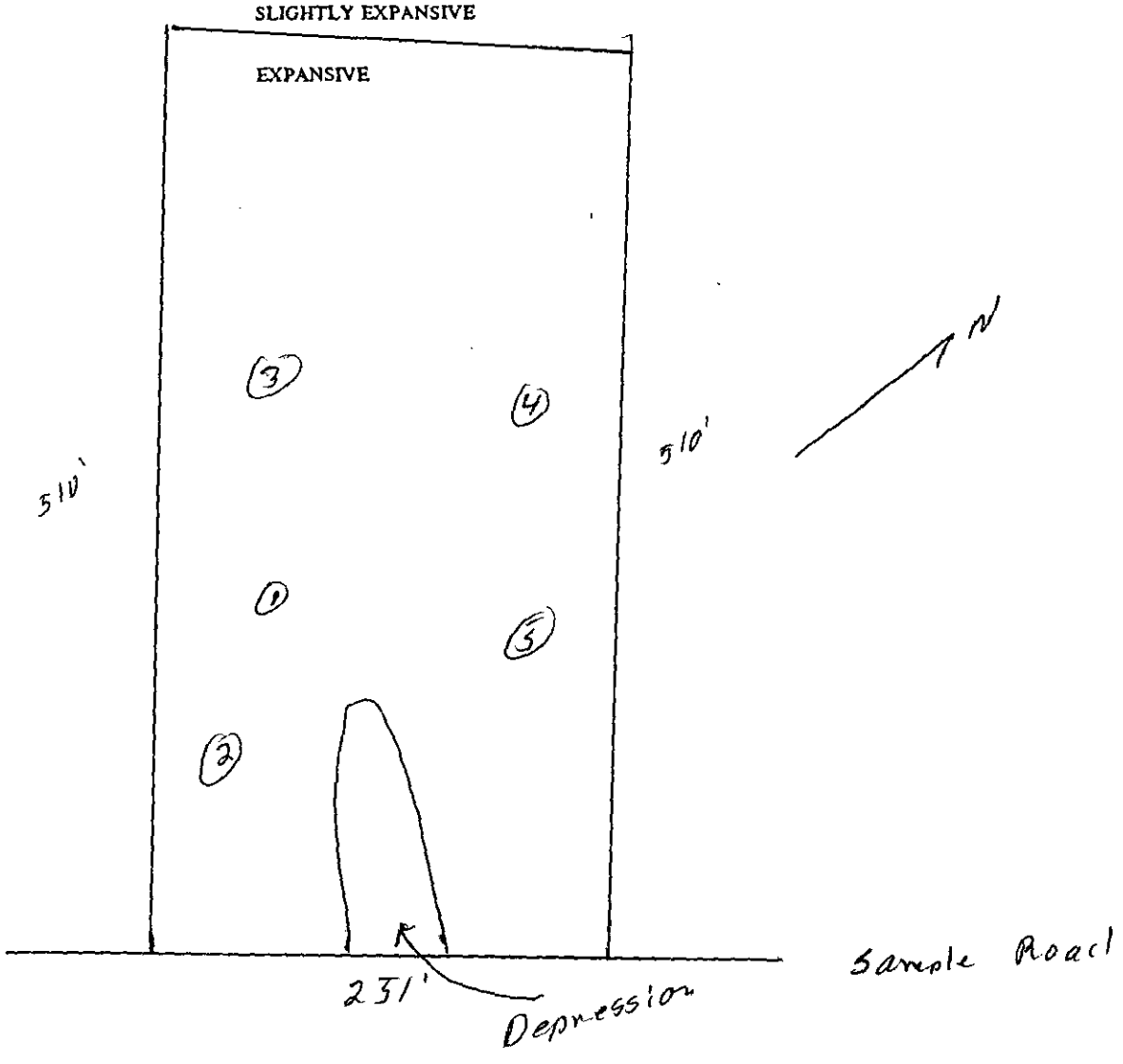
STRUCTURE

SG-SINGLE GRAIN
M-MASSIVE
CR-CRUMB
GR-GRANULAR
SBK-SUBANGULAR BLOCKY
ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



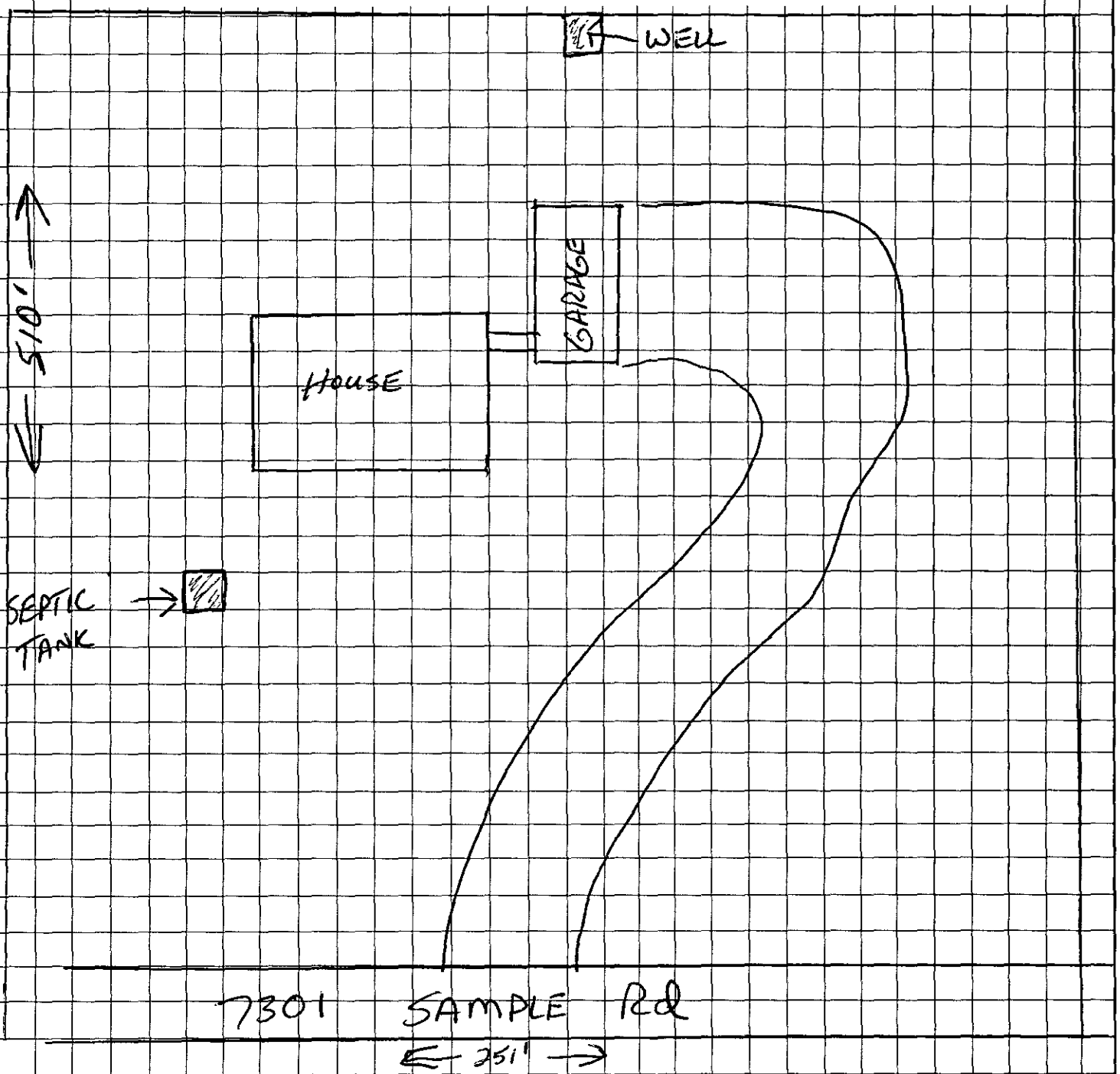
PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 4543B

TC: PO 023042 03

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.



Robert F Kern
OWNER/AGENT SIGNATURE

DATE 2-26-01

APPROVAL DATE _____

White - Health Department's Copy Canary - E.H.S. Copy Pink - Owner's Copy

Sample Road Ksats

45430

Site 1

Horizon	Depth (in)										
B1	11-18	Ksat	>	0.31	cm/hr	~	2.93	in./day	~	**1.83**	gpd/sq. ft
B2	24-30	Ksat	>	0.16	cm/hr	~	1.51	in./day	~	**0.94**	gpd/sq. ft
B2	37-45	Ksat	>	0.54	cm/hr	~	5.10	in./day	~	**3.18**	gpd/sq. ft

Site 2

Horizon	Depth (in)										
B1	11-19	Ksat	>	0.6	cm/hr	~	5.67	in./day	~	**3.53**	gpd/sq. ft

Site 3

Horizon	Depth (in)										
B1	8-14	Ksat	>	1.03	cm/hr	~	9.73	in./day	~	**6.06**	gpd/sq. ft
B1	14-20	Ksat	>	1.82	cm/hr	~	17.20	in./day	~	**10.71**	gpd/sq. ft

Site 4

Horizon	Depth (in)										
B1	9-15	Ksat	>	0.86	cm/hr	~	8.13	in./day	~	**5.06**	gpd/sq. ft
B2	26-32	Ksat	>	0.68	cm/hr	~	6.43	in./day	~	**4.00**	gpd/sq. ft

Site 5

Horizon	Depth (in)										
B1	16-24	Ksat	>	0.59	cm/hr	~	5.58	in./day	~	**3.47**	gpd/sq. ft

Average value of Ksats of B1 horizon **5.11 gpd/sq ft**
Average value of Ksats of B2 horizon **2.71 gpd/sq ft**

45430

S&EC

Soil & Environmental Consultants, Inc.

710 Boston Road ¡ Taylorsville, North Carolina 28681 ¡ Phone: (828) 635-5820 ¡ Fax: (828) 635-5820
Web Page: www.SandEC.com

Facsimile Sheet

Fax Number (828) 635-5820

Date: 5/16 Time Sent: _____

To: Name: Bill Mark cc: _____

Company: _____ _____

Fax Number: 704 336 - 6894 _____

From: Steve Price Lon Kerr Kcats

Number of pages including transmittal sheet: 2

- ___ For your comments/approval
- ___ Per our conversation
- ___ Please advise
- ___ Would like to discuss
- ___ For your information
- ✓ Per your request
- ___ Please call
- ___ Please handle

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Remarks: I was out of the office all last week & I thought I had this file with me but I did not that is the reason for the delay.

If you have any questions or problems with the transmission, please contact _____ at (828) 635-5820.

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Sample Road Ksats

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Site 4

Horizon	Depth (in)										
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B2	26-32	Ksat	>	0.68	cm/hr	~	6.43	in./day	~	**4.00**	gpd/sq. ft

Site 5

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PROPOSED PLOT PLAN

HEALTH DEPARTMENT
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PHONE (704) 336-5102

FILE: 4543B

TC: PO'023.042.03

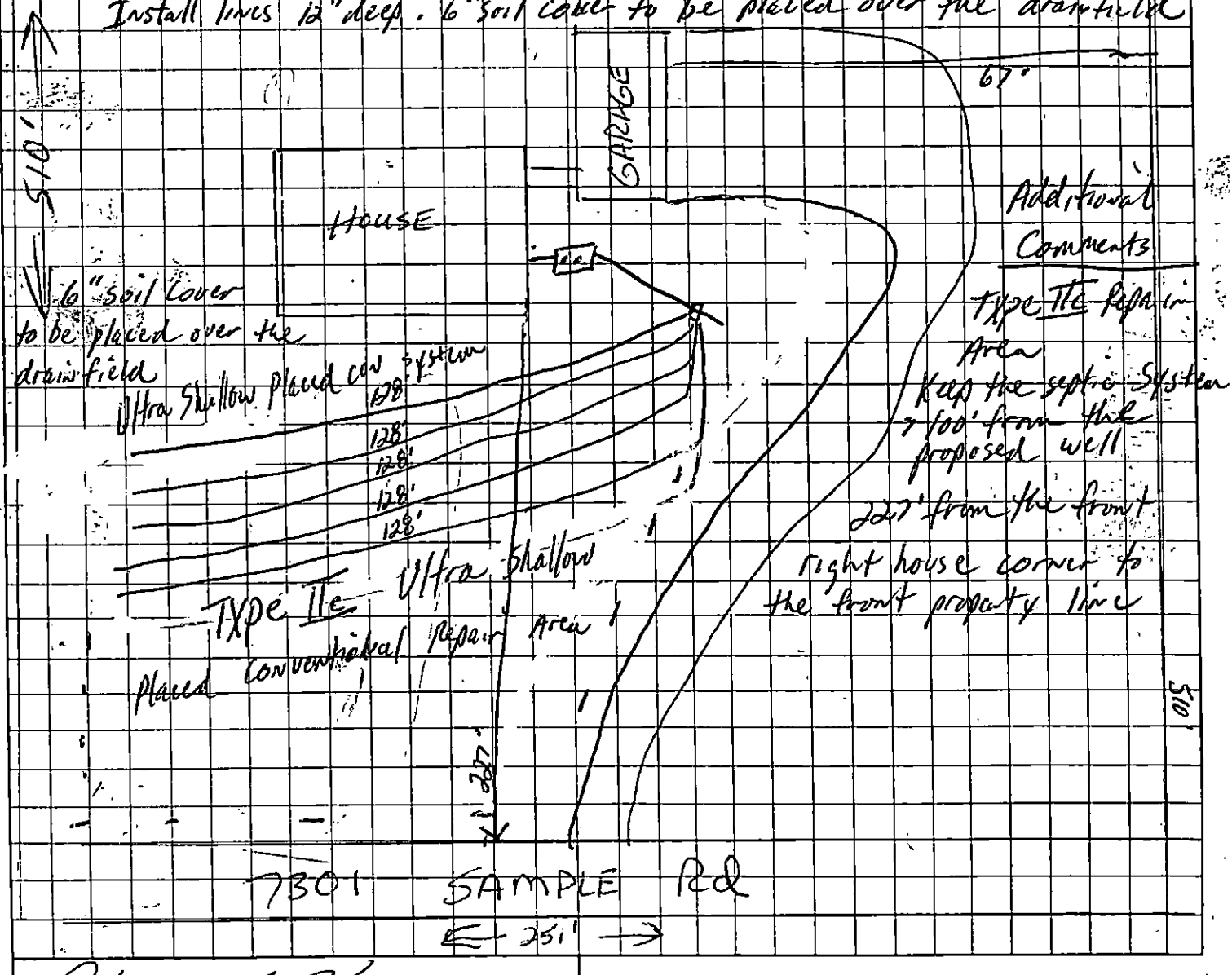
Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.

COMMENTS:

4 Bedroom Residence

Keep the septic system @ ≥100' from the proposed well

Ultra shallow Conventional System Approval, Agreement forms shall be recorded and on file prior to cons. Auth. release. 1500 ST, 5 lines x 128' long x 3' wid x 12" Stone. 640 LF Install lines 12" deep. 6" soil cover to be placed over the drainfield



Robert L Rees
OWNER/AGENT SIGNATURE

DATE 2-26-01

APPROVAL DATE _____

White - Health Department's Copy Canary - E.H.S. Copy Pink - Owner's Copy

