

10936 BLAIR RD

13909216

12/31/2007

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: 2711 B DATE: _____

TC: 139-092-10 PO ☐ L ☒ CRT

SERIAL Nº 17547

Name of Owner Pauline C. Hanline Juris.: _____

Address of Property 10936 Blair Road

Inspection Data:

Tank Material Pcc Straight

Total Length of Drainfield 400' LOP

Number of Lines 4 @ 100'

Cover Depth 6"

Water Supply Source Priv. well not installed

Distance to Water Source 750' 3-17 bt 300'

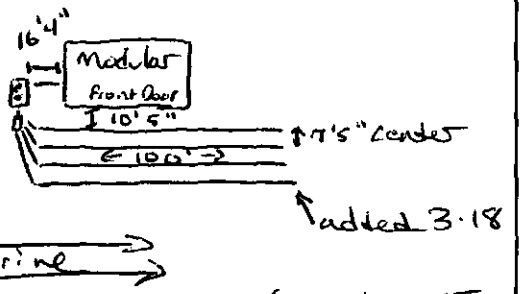
Excavation Inspected 3-18 100'

Tank(s) Inspected 3-17

Wash Line Inspected N/A

High Water Alarm Inspected N/A

3-18 walk through / 3 bedrooms rather than 2
* Terry Dorn will call back when closet is removed from 3rd bedroom



4-19 Closet has been closed in. LT

PLOT

Design 1500 ST, MOD-LOP, 1000SF, T, 6"S, IV Group Lwr Loop CTR# _____

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 15A 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 15A 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: Type III f large diameter pipe 2 bedrooms
(4) 1 in x 100' trenches group I backfill
* 3 bedroom Modular at time of walk through

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: 2711B DATE: 2-3-99

TC: 139-092-10 ~~99~~ X

SERIAL Nº 17773

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 10-16-98. All work shall be completed on or before 3-3-99, 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.

* Install according to approved plans
* House site must be moved back 10' from current location. We need at least 50' from front of house to drive — or at least 60' from property line to front of house.
* 2 bedroom only - final contingent upon walk through

PLOT OF SYSTEM

Liquid Capacity of Septic Tank 1500 gallons

Liquid Capacity of Dosing Tank — gallons

Tank Construction PCC

Trench Depth 12"

Absorption and/or Nitrification Lines:

Trench Width 12" or 1 foot feet

Trench Walls Scored and Porous Yes

Total Line Length 400 feet

Number of Lines 4

Depth of Stone N/A inches

Distance from House 5 feet

Distance from Property Line 10 feet

Distance from Well >50 feet

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

NAME OF OWNER Pauline C. Hanline

LOCATION OF PROPERTY 10996 Blair Road

Comments: Type IIIf 2 bedrooms - Group I, II, or III soil backfill required in trenches - 6" of total soil cover required. Speed levels required in distribution box

James B. Thompson, Jr. R.S.
Environmental Health Specialist

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

Memorandum

To: Ms. Pauline Hanline

From: Larry B. Thompson, Jr., R.S.

Date: 04/30/99

Re: 10936 Blair Road

Items needed in order to close out File # 2711B

Enclosed you will find a "Wastewater Treatment and Disposal System Design Agreement" form. This form must be completed, notarized, and recorded at the Mecklenburg County Register of Deeds office which is located at 720 E. 4th Street, Charlotte, NC. After recording, a copy of the recorded agreement form must be filed with our office, which is located at 700 N. Tryon Street, Suite 211, Charlotte, NC.

There is a balance of $75.00 owed on your file. This fee will need to be paid before our office will issue an Operation Permit for your wastewater treatment and disposal system.

Please let me know if you have any questions regarding this memo, you can reach me at 336-5568.

Memorandum

To: Ms. Pauline Hanline

From: Larry B. Thompson, Jr., R.S.

Date: 04/30/99

Re: 10936 Blair Road

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There is a balance of $75.00 owed on your file. This fee will need to be paid before our office will issue an Operation Permit for your wastewater treatment and disposal system.

Please let me know if you have any questions regarding this memo, you can reach me at 336-5568.

FOR REGISTRATION JUDITH A. GIBSON
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC
1999 MAY 06 11:53 AM
BOOK:10455 PAGE:78-81 FEE:$12 00
INSTRUMENT # 1999081874

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

FILE # 27118 OUT OF
PARCEL # 139-092-10Pc

The undersigned, Pauline C. Hanline, owner of property located at 10936 Blair Road, (the "site") and described in an instrument recorded in Book 5332 at Page 471, 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: PAULINE Hanline
Mail after recording to: 11000 BLAIR RD CHARLOTTE NC 28227

- 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 4th day of May, 1999.

_____ (SEAL)

(Corporate Name)
Pauline C. Hanline

_____ (SEAL)

By: Pauline C. Hanline

_____ (SEAL)

_____ President

_____ (SEAL)

ATTEST:

_____

_____ Secretary

(Corporate Seal)

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg

I, Jane P. Thompson, a Notary Public for said County and State, do hereby certify that Pauline C. Hanline personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this 4th day of May, 1999.

Jane P. Thompson
Notary Public

My Commission Expires:
March 12, 2001

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: 05/06/1999 11:53 AM

Book: RE 10455 Page: 78-81

Document No.: 1999081874

AGMT 4 PGS $12.00

Recorder: DOROTHY MCCLELLAND

****

State of North Carolina, County of Mecklenburg

The foregoing certificate of JANE P. THOMPSON Notary is certified to be correct. This 6TH of May 1999

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

****

1999081874

CK #6622 W&W

FEE: 200.00 **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION**
DATE: 2-5-99 **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

DATE: 2-2-99 10936 PERMIT NO: 27116
PARCEL NO: 139-092-10 Po
JOB LOCATION ADDRESS: ~~####~~ Blair Road
PROPERTY OWNER: Pauline Hanline
BUILDING CONTRACTOR:
SUBDIVISION NAME:
AUTHORIZATION ISSUED BY: Ronny B. Thompson, Jr., R.S. DATE: 2-2-99
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 27116, 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: See Conditions Of Improvement Permit
2 Bedroom House - Walk through!

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.

2-5-99

SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

Permit Number: 2711B

139-092-1090

- 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 HT	___ 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	240 Max gallons/day wastewater flow	960 Absorption Area (sq ft) opted for 1200	7.5 Trench spacing (min. on centers)
Yes Serviced by private well	1500 Gallon septic tank	400 Total trench length (ft)	12" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)
2 Bedrooms in residence	___ Gallon pump tank	N/A Depth of stone	

Any surface waters present: Type: Minimum separation distance:

Site modifications required:

Additional Conditions:
- Install according to approved plans.
- Group I, II or III soil backfill required.
- 6" soil cover required over drainlines.
- 2 bedroom house only - walk through required

* Septic tank riser over outlet pipe recommended for access to effluent filter

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

960 - 1200 Absorption Area (Sq ft) 400 Total Trench Length (Ft)	N/A Depth of Stone Trench	7.5 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.

Larry G. Thompson, L.S. 2-2-99
DEHNR Authorized Agent Date

X _____ 2-8-99
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

FEE: 100.00 CK# 5490
DATE: 10/16/98 JC

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

[ ] CRT

TYPE APPLICATION: ✓ 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 #: 2711B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 139-092-10 PP

STREET ADDRESS: 10936 Blair Rd

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER:

TYPE OF BUILDING (CHECK ONE):

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

TOWNSHIP (CHECK ONE):

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

HEATED SQUARE FOOTAGE: 1206

NUMBER OF BEDROOMS: 3 NUMBER OF OCCUPANTS: /

CLOSING DATE _____

FOUNDATION FOR RESIDENCE:

__ WITHOUT BASEMENT ON SLAB
✓ 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 ✓ NO TYPE: _____

WATER SUPPLY (CHECK ONE):
__ COMMUNITY (C)
__ MUNICIPAL (M)
✓ 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 ✓ NO	WELL, SPRINGS OR WATERLINES	__ YES ✓ NO
EXISTING WASTEWATER SYSTEMS	__ YES ✓ NO	DESIGNATED WETLANDS	__ YES ✓ NO
EASTMENTS OR RIGHT-OF-WAYS	__ YES ✓ NO		

PROPERTY OWNER:

NAME: Hanline Pauline C
(LAST) (FIRST) (MI)

ADDRESS: 11000 Blair Rd

CITY: Charlotte STATE: NC ZIP: 28277

DAYTIME PHONE: (704) 545-6985

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: Schepens Phil B,
(LAST) (FIRST) (MI)

DAYTIME PHONE: (704) ~~333-9528~~ 1483-3633 9:00am

410 AW Blvd
Charlotte NC 28202.

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 10-9-86

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: _____ DATE: 10-16-98

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

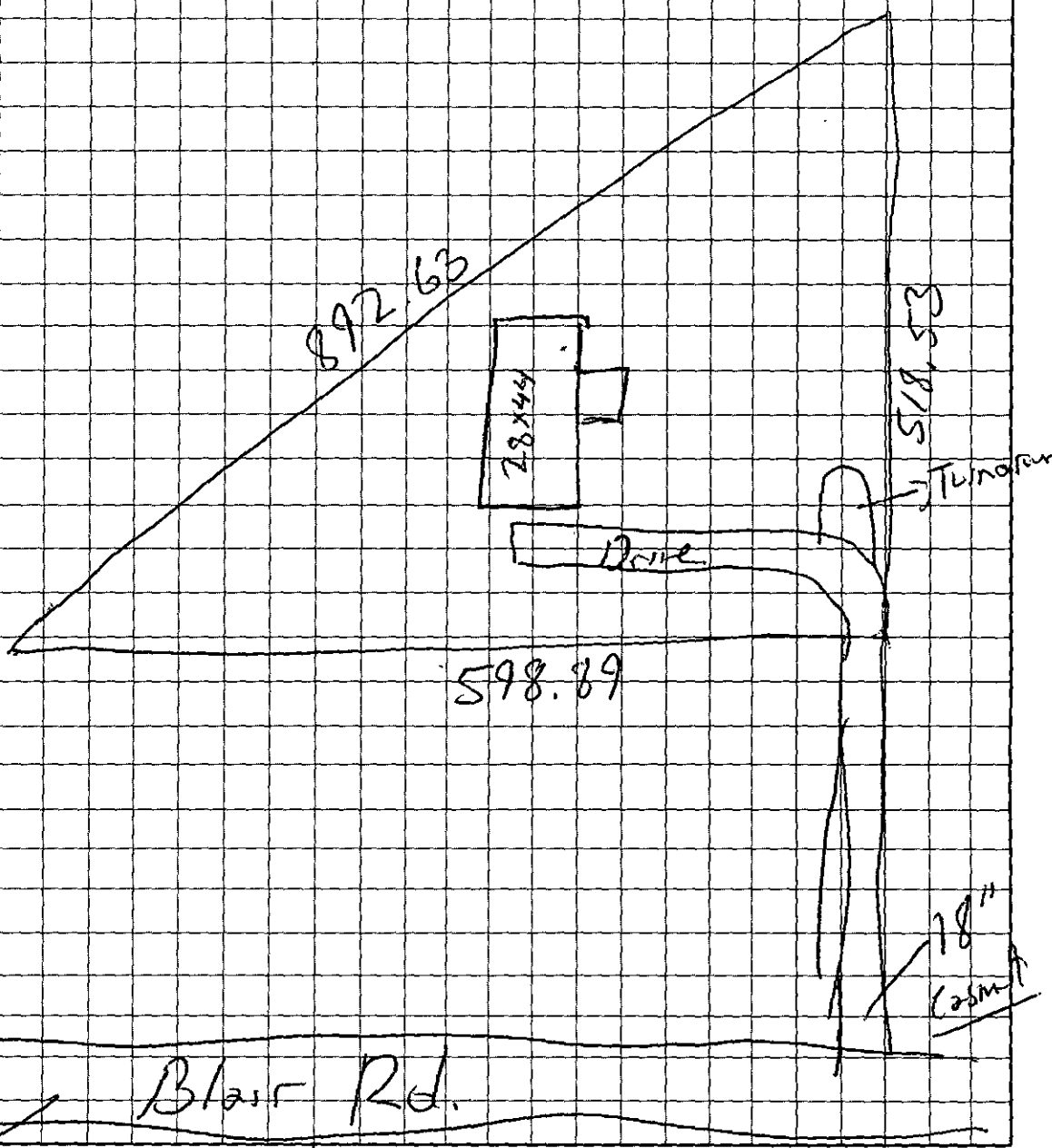
PROPOSED PLOT PLAN

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

FILE: 2711B

TC: 139-092-10 PO

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.



OWNER/AGENT SIGNATURE

DATE 10-16-98

APPROVAL DATE _____

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

Carlin Soil Consultants, Inc.
3024 Oak Ridge circle
Lincolnton, NC 28092
Phone: (704) 732 3584, Fax: (704) 732 3702

January 28, 1999

Mr. Larry Thompson, Jr., R.S.
Mecklenburg County Health Department
Environmental Health Division
700 North Tryon Street, Suite 211
Charlotte, North Carolina 28202-2236

Rw: Blair Road
File: 2711B
Parcel: 139-092-10PO

Dear Mr. Thompson

I have received your letter, referenced above, detailing your comments on the system designed for Ms. Pauline Hanline on Blair road. Below I have addressed each and the action I have taken:

1. **The L.T.A.R. was only a professional opinion and not based on Hydraulic Conductivity tests. I have changed our design to use this L.T.A.R. rather Than cause Ms. Hanline the further expense of these tests.**

2. **Trench depths have been altered in the plans to ~~24~~ 12 inches**

3. **Plans now contain 1500 septic tank. Riser is in plans.**

4. **Provisions have been added to detail water leveling proceedures.**

5. **Backfill requirements have been added.**

6. **Updated scale drawing is in package.**

Should there be any unanswered questions or if I can be of further assistance please contact me at the above address.

Sincerely

William P. Carlin
Registered Environmental Health Specialist
Licensed Soil Scientist

Calculations

Primary and secondary systems (2 bedroom Home)

Recommended LTAR .25 gallons / sq. ft. / day

2 bedroom home = 240 gallons / day

240 gallons /day = 960 sq. ft. (drain field area)
.25 gallons /sq.ft. /day

Use large diameter pipe system - 10 inch pipe

960 sq. ft drainfield = 384 linear feet of 10 inch pipe
2.5 ft (10 inch diameter pipe)

Each drainfield requires 384 linear feet of 10 inch pipe (install 400 ft)

Ditches are to be 1 ft in width. Spacing is 7.5 ft on center (10" pipe equates to 2.5' ditch).

Installation Conditions

The septic system will consist of 1500 gal septic tank, distribution box, and drain line. The trench width is 1 foot, depth 12 inches, trench spacing is 7.5 foot on center. 10" large diameter pipe will be used for nitrification lines

Drain lines are to be installed on level with no more than 1" drop in 100'.

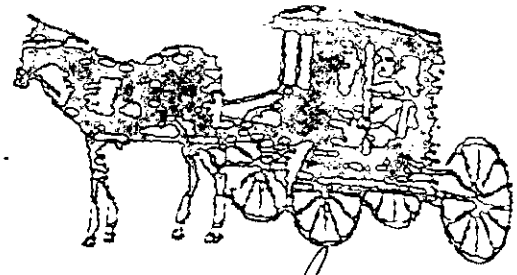
The septic tank must have a Zabel 300 (or equivalent) filter installed in the outlet and a riser to bring access to tank to within 6" of surface (It is recommended that the riser be brought to 4" above surface) .

Tank must be set to allow gravity feed to distribution box. Distribution box must be set in a concrete foundation to insure it will not move after system is installed. Water level using speed levelers.

Ditches must be backfilled with with Group I, II, or III soil.

A soil cap may be required to maintain a six inch cover over the drain field. Drain field must be protected from vehicular and foot traffic.

FIRST VALUE HOMES
OPERATIONS CENTER
723 ARMSTRONG PARK RD.
GASTONIA, N.C. 28054
(704) 867-3000
(704) 867-0705
FAX: (704) 867-3006



2711 b

TO: Larry Thompson

COMPANY:

DATE:

FAX: 336-668-94

FROM THE DESK OF: Larry Reep / Terry Dorn

NUMBER OF PAGES: 8
(INCLUDING THIS COVER SHEET)

Pauline Hardline.

COMMENTS:

Background

On January 12, 1999 we completed a site evaluation on the 2 acre parcel owned by Pauline C. Hanline in Mint Hill, NC. The purpose of the evaluation was to determine if the property could be used as a residential site for a home with two bedrooms.

The lot was checked with a hand auger to determine the depth of suitable soil. The results were similar to the data found by Mecklenburg County Health Dept. Soil depths in the area designated for the initial and repair drain field ranged from ~~28"~~ 24" to ~~32"~~. These depths will support a drain field consisting of 10" large diameter pipe.

The ditches for the large diameter pipe should be dug to a depth of ~~15"~~ 12", allowing ~~1"~~ 6" required of natural cover. The area where the pipe is installed must be protected from both vehicular and foot traffic.

LICENSED SOIL SCIENTISTS
WILLIAM F. CARLIN
10.5
STATE OF NORTH CAROLINA

Carlin Soil Consultants, Inc.
3024 Oak Ridge circle
Lincolnton, NC 28092
Phone: (704) 732 3584, Fax: (704) 732 3702

Enclosed is a design requested by Pauline C. Hanline of Mint Hill for a two bedroom home. I have enclosed a plot plan, system design, calculations for the system, and a survey of the property.

Should there be any unanswered questions or if I can be of further assistance please contact me at the above address.

Sincerely

William P. Carlin
Registered Environmental Health Specialist
Licensed Soil Scientist



Installation Conditions

Type "B" purafio installation

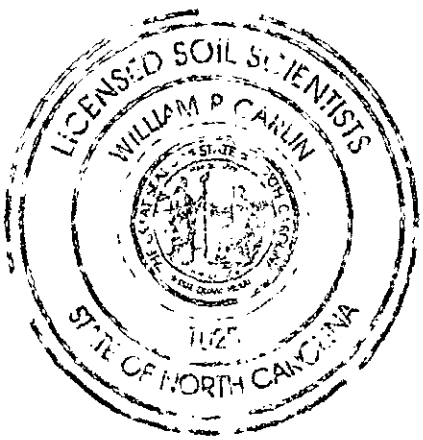
The septic system will consist of ~~1000~~ 1500 gal septic tank, distribution box, and drain line. The trench width is 1 foot, depth ~~16 inches~~ 12, trench spacing is 7.5 foot on center. 10" large diameter pipe will be used for nitrification lines

Drain lines are to be installed on level with no more than 1" drop in 100'.

The septic tank must have a Zabel 399 (or equivalent) filter installed in the outlet and a riser to bring access to tank to within 6" of surface (It is recommended that the riser be brought to 4" above surface) .

Tank must be set to allow gravity feed to distribution box. Speed levels ?

A soil cap may be required to maintain a six inch cover over the drainfield. Drain field must be protected from vehicular and foot traffic.



Calculations

Primary and secondary systems (2 bedroom Home)

Recommended LTAR ~~.4 gallons~~ .25 / sq. ft. / day

3 bedroom home = 360 gallons / day

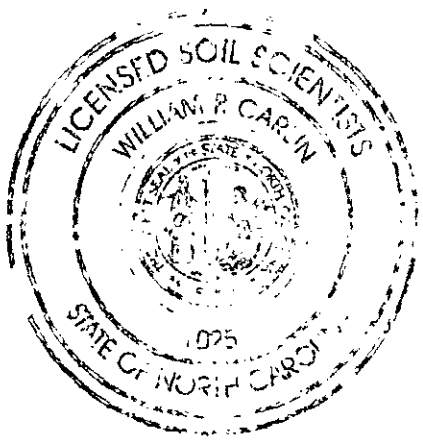
240 gallons /day = ~~600~~ sq. ft. (drain field area)
.4 gallons /sq.ft /day

Use large diameter pipe system - 10 inch pipe

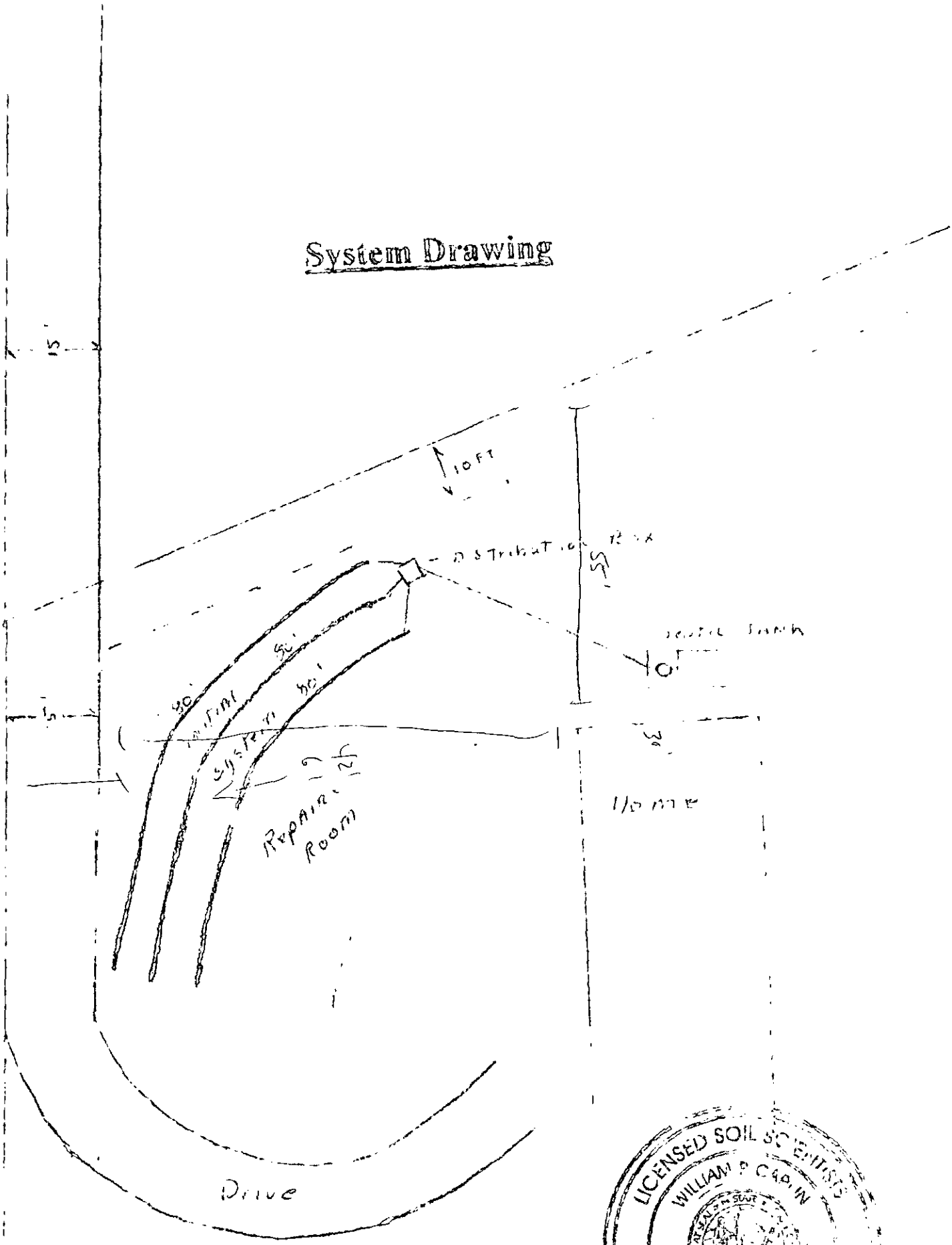
600 sq. ft drainfield = ~~240~~ linear feet of 10 inch pipe
2.5 ft (10 inch diameter pipe)

Each drainfield requires ~~240~~ linear feet of 10 inch pipe

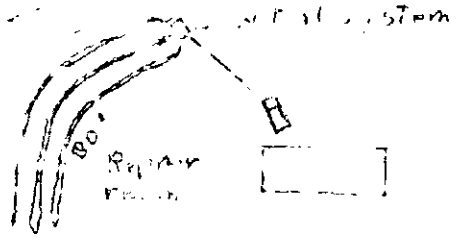
Ditches are to be 1 ft in width. Spacing is 7.5 ft on center (10" pipe equates to 2.5' ditch).

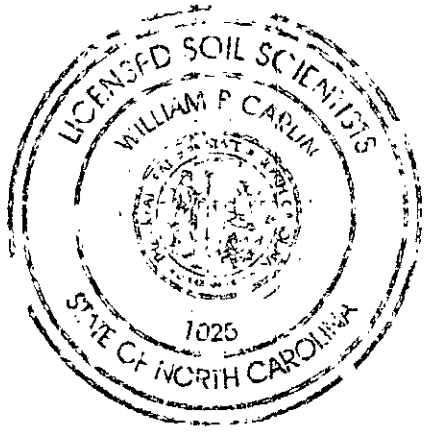


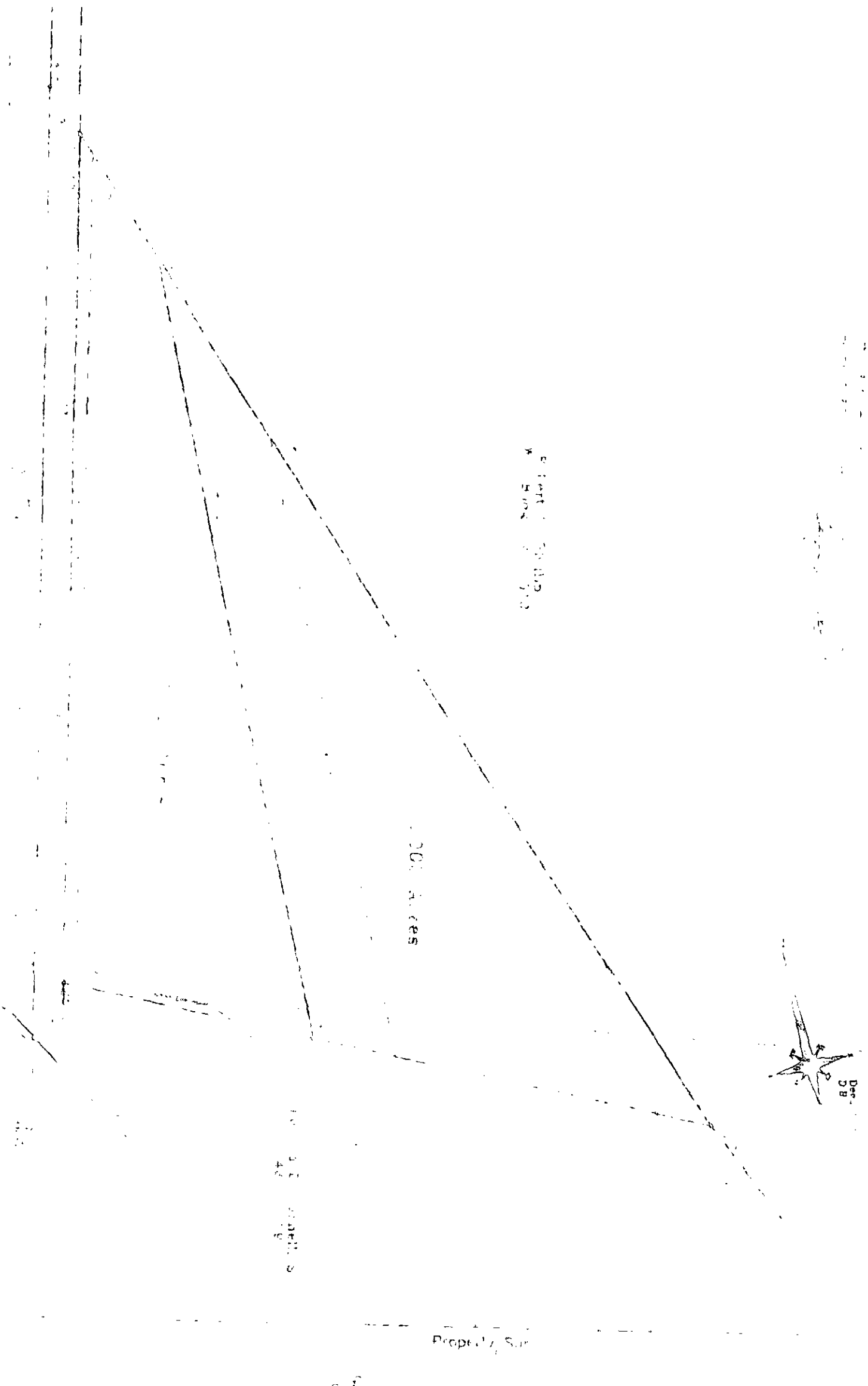
System Drawing



Site Plan

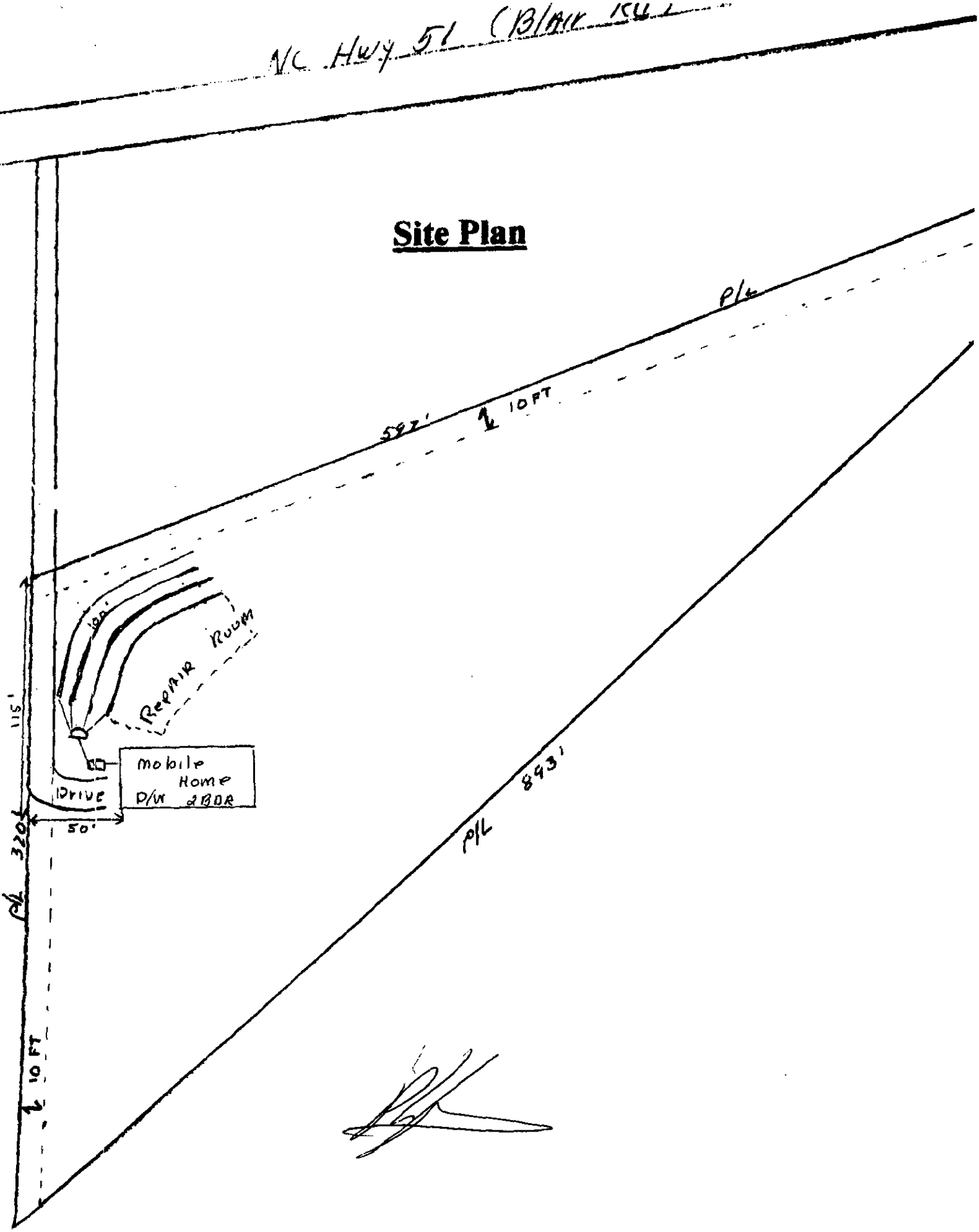

80'


LICENSED SOIL SCIENTISTS
WILLIAM P CARLIN
1025
STATE OF NORTH CAROLINA


Property Sur
BC

NC Hwy 51 (Blair Rd.)

Site Plan



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

#2 400

Sheet ____
PROPERTY ID #: PO 139-092-10
Lot # : ____
File # : 2 7119

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Caroline C. Hawkins APPLICANT: Phil - As Represented
ADDRESS: 11000 Blair Road, Stanfield, N.C. DATE EVALUATED: 11-17-98
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949): 360 gpd PROPERTY SIZE: 2.0
LOCATION OF SITE: Blair Road PROPERTY RECORDED: ____
WATER SUPPLY: ☑ Private ☐ Public ☐ Well ☐ Spring ☐ Other ____
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	Slopes 2-9% .1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.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/cl	Fr/SE/SP SS/SP	24" TO soil wetness	24"	N/A	None	US IV .125 gpd/ft² LPP
		3-24"	SBK/C	Fi/SE/SP					
2	LS	0-4"	gr/cl	Fr/SE/SP SS/SP	18" TO soil wetness	18"	N/A	None	US IV
		4-16"	SBK/C	Fi/SE/SP					
3	LS	0-3"	gr/cl	Fr/SE/SP SS/SP	48" TO soil wetness	48"	N/A	None	PS .3 gpd/ft² IV
		3-48"	SBK/C	Fi/SE/SP					
4	LS	0-10"	SBK/cl	Fr/SE/SP SS/SP	10" TO soil wetness	10"	N/A	None	US III
		10"+	saprolite						
5	LS	0-17"	M/cl	Fr-Fi/SE/SP SS/SP	17" TO soil wetness		N/A	None	US III
			(saprolite)						
6	LS	0-4"	gr/cl	Fr/SE/SP SS/SP	28" TO soil wetness	24"	N/A	None	US IV .125 gpd/ft²
		4-26"	SBK/C	Fi/SE/SP					
7	LS	0-3"	gr/scl	Fr/SE/SP SS/SP	26" TO soil wetness	26"	N/A	None	US IV .125 gpd/ft²
		3-26"	SBK/C	Fi/SE/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: A. R. Merlin 11-17-98
OTHER(S) PRESENT: LSS

EPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
IVISION OF ENVIRONMENTAL HEALTH
)N-SITE WASTEWATER SECTION

Sheet ____
PROPERTY ID #: ____
Lot # : ____
File # : 2711B

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ____ APPLICANT: ____
ADDRESS: ____ DATE EVALUATED: ____
PROPOSED FACILITY: ____ PROPOSED DESIGN FLOW (.1949): ____ PROPERTY SIZE: ____
LOCATION OF SITE: ____ PROPERTY RECORDED: ____
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other ____
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 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
B	LS	0-3"	gr/scl	Fr/SExP/SS/SP	>27" To Soil Wetness	27"	N/A	None	US IV .1279(F2
		3-23"	SBK/c	Fi/SExP/SP					
		23-27"	SBK/cl	Fr/SExP/SS/SP					

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

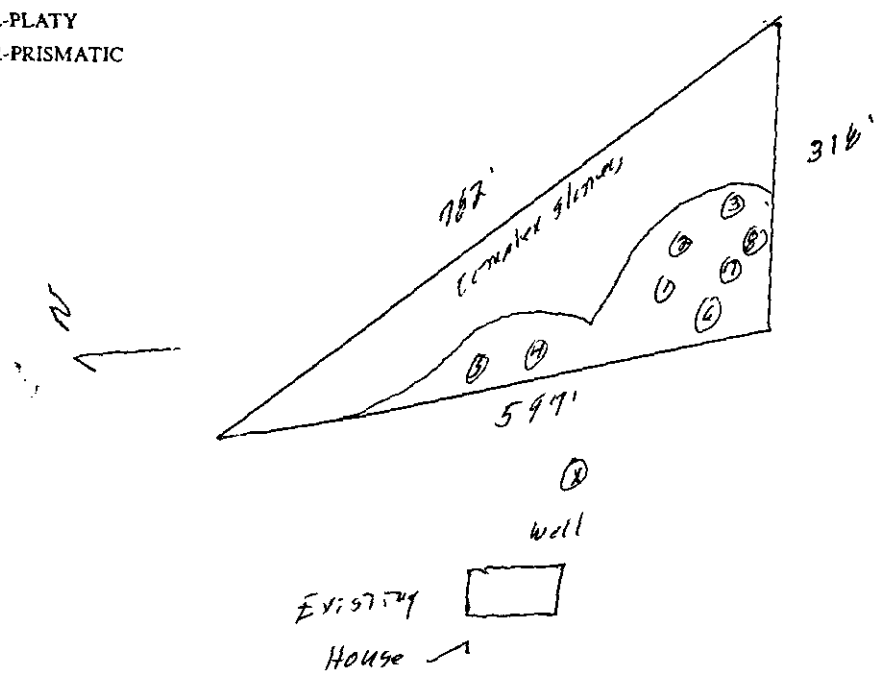
OTHER FACTORS (.1946): ____
SITE CLASSIFICATION (.1948): ____
EVALUATED BY: ____
OTHER(S) PRESENT: ____

COMMENTS 1006 Report

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



Bloi Pad

Mecklenburg County
Health Department

January 21, 1999

Mr. William P. Carlin
3024 Oak Ridge Circle
Lincolnton, NC 28092

Re: Blair Road
File: 2711B
Parcel: 139-092-10PO

Dear Mr. Carlin:

Receipt of the plans and specifications for an alternate or modified wastewater treatment and disposal system for the above referenced property is hereby acknowledged. Upon receipt of the information, a review was made of the material on file and a site visit was made. The plan was then reviewed in conjunction with provisions of 15 NCAC 18A, .2900, "Laws and Rules for Sanitary Sewage Collection, Treatment and Disposal" as well as specific local requirements. Our comments are listed below:

1. The LTAR recommended by our soil scientist is .25 gallons/ square foot/ day, please provide substantiating data for the consideration of a higher LTAR.
2. The average soil depth for this lot is 24 inches, please provide substantiating data that reflects deeper soil depths or specify the appropriate trench depth and soil cover requirement for the drain field.
3. Our division requires that the minimum septic tank storage capacity be 1500 gallons, we also recommend that a riser be placed over the outlet end of the septic tank.
4. Provisions for water leveling of the distribution device are not specified on the plans.
5. Nitrification trench backfill material is not specified on the plans, please indicate that the backfill will consist of a group I, II or III soil.
6. Specific measurements from the property lines to the house site are not specified; a scaled drawing showing these measurements will be required.

For these reasons, the plans as submitted are disapproved. You may wish to re-submit a revised plan to the Health Department for technical review. An alternate or modified plan must provide written documentation, including engineering, hydrogeologic, geological or soil studies which indicates to the Health Department that a proposed wastewater treatment and disposal system can reasonably be expected to function satisfactorily.

If you have any questions regarding this matter, please call me at 704-336-5568.

Sincerely,

Larry B. Thompson, Jr., R.S.
Environmental Health Specialist
Individual Water and Wastewater Systems

cc: Ms. Pauline C. Hanline