DEPARTMENT OF
ENVIRONMENTAL HEALTH
MECKLENBURG COUNTY,
NORTH CAROLINA

SITE EVALUATION

S.I.R. NO. 16242

T.C. NO. P.O. 049-241-10

(Ground Absorption Sewage Disposal)

OWNER: FRANCIS LOPATA
ADDRESS: 1144 CHEDINGTON DR
CHARLOTTE, 28211
LOCATION OF SITE: KNOLL WOOD Lot 10

PLAT NO:
LOT SIZE: ?

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4
1. SLOPE (%)	S (PS) 19-20% U	S PS U	S PS (U) Complex Slopes	S PS U
2. SOIL TEXTURE (12-36 inches) Sandy, Loamy, Clayey (Note 2-1 Clay)	S (PS) clay Loam U	S PS U	S PS (U) Mixed Clay	S PS U
3. SOIL STRUCTURE (12-36 inches)	S (PS) Blocky U	S PS U	S PS (U) Weak Blocky	S PS U
4. SOIL DEPTH (inches)	S PS 12-15" (U) (35"+ Hd.)	S PS U	S PS 10-15" (U)	S PS U
5. RESTRICTIVE HORIZONS (Inches) (Impervious strata, Rock)	S (PS) None U	S PS U	S (PS) None U	S PS U
6. SOIL DRAINAGE/GROUNDWATER (external and internal)	S (PS) Adequate U	S PS U	S (PS) Adequate U Too Slow	S PS U
7. OTHER (Specify) Area	S PS Limited Area (U)	S PS U	S PS U	S PS U
8. SOIL GROUP	IVL Except For First 12 INCHES.		IVL	
9. SITE CLASSIFICATION	Unsuitable		Unsuitable	
10. SOIL SERIES	NONE - MORE OF An A-C- Area		Not Distinguishable	

S - Suitable PS - Provisionally Suitable U - Unsuitable

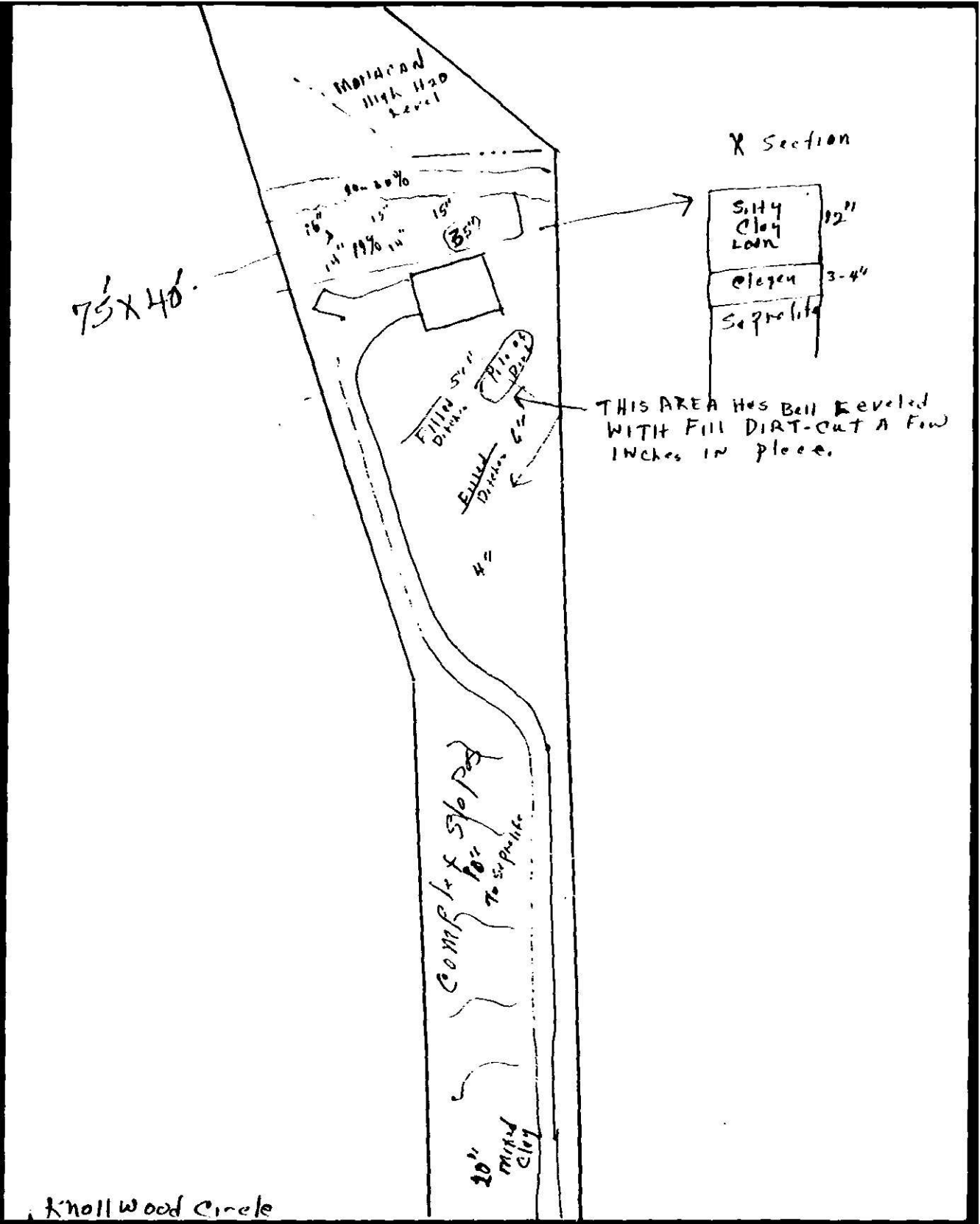
**See Diagram on Back (includes: soil areas, property lines, roads, streams, gullies, wet areas, fill areas, wells, water bodies, slopes)

Recommendations/Comments: Saprolite Appears To Be Impervious. Holes Full of Water.

Described by: W. B. Ramsey
Title: Soil Scientist

Date: 4-26-85

BDH
4/29/85


Maximum High H2O Level
75' X 40'
X Section
Silty Clay Loam
12"
Clayey
3-4"
Saprolite
THIS AREA Has Been Leveled WITH Fill DIRT-Cut A Few Inches IN Place.
Fill Dirt
Cut Dirt
4"
Compact 5% Slope
To Saprolite
20" Mixed Clay
Knollwood Circle

Date Received 4-19-85

SEE INSTRUCTIONS ON REVERSE SIDE OF CARD(S)

RECEIVED
APR 19 1985
MECKLENBURG COUNTY
ENVIRONMENTAL HEALTH

Application No 16242

T C No 42-261-10

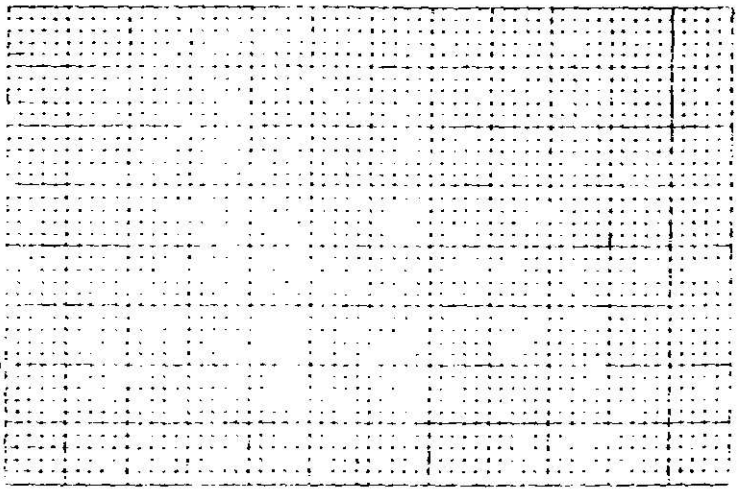
Map Date

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH

Application for an
Installation, Construction, Alteration, and/or Repair Permit
(Individual Septic Tank System with Subsurface, Soil Absorption, Effluent Discharge)

The owner of that property described hereinafter hereby applies to the Mecklenburg County Department of Environmental Health for a permit to

1) ✓ Install or Construct 2) ____ Alter or Repair an individual septic tank wastewater treatment system with a subsurface soil absorption, effluent discharge



3) PLOT PLAN (ACCURATELY DIMENSIONED)

Mobile Home ___ Yes ___ No
Residence ✓ Yes ___ No
4) No of Bedrooms 2
5) Business Use ~~Max No~~
Employees ___
6) Washing Machine ✓ Yes ___ No
7) Garbage Disposal ✓ Yes ___ No
8) Dishwasher ✓ Yes ___ No
9) Water Supply
A Individual Well ✓
B Governmental System ___
C Community System
1 Well source ___
2 Governmental source ___
10) Sewage System
House located within 200 feet of public sewer ___ Yes ✓ No
House located within 200 feet of community sewer ___ Yes ✓ No
11) FHA Case No ___
12) VA Case No ___

13) NAME OF OWNER LOPATA (LAST) FRANCIS (FIRST) ANTHONY (MIDDLE)

14) ADDRESS OF OWNER 1146 CHEDINGTON PL CHARLOTTE

15) PHONE NO Home Anthony F. Lopata Office 567-0486 AFA Corporation Co.

16) LOCATION OF SYSTEM 5404 KNOLLWOOD CIRCLE (STREET OR COUNTY ROAD)

17) SUBDIVISION KNOLLWOOD Lot No. 10 Block No. 21 H

Map Book No 49 Page No. 26

18) DEED REFERENCE — DEED BOOK ___ AT PAGE ___

19) HAS A SOIL INVESTIGATION BEEN RUN? ✓ YES NO DATE RUN 1985 APRIL

20) PTR NUMBER (See Instructions) ___

The undersigned person hereby agrees that he has read the foregoing application and that the contents of same are true. It is understood that any permit applied for herein shall be void and of no effect if any of the above facts are not true.

APRIL 19 1985
DATE OF APPLICATION

Francis A Lopata
OWNER

EHD-S-76

ENVIRONMENTAL HEALTH DEPARTMENT'S COPY

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
1200 Blythe Boulevard
Charlotte, North Carolina 28203

April 4, 1985

Francis A. Lopata
1146 Chediwoton Drive
Charlotte, NC

Reference: Property located at 8104 Knollwood Circle

Dear Mr. Lopata:

Receipt of the plan for a low pressure pipe system of sewage disposal for the above referenced property, is hereby acknowledged. Upon receipt of the plan, a review was made of the site evaluations and applications on file with this department. The plan was then reviewed in conjunction with the provisions of 10 NCAC 10A .1900, Laws An Rules For Sanitary Sewage Collection, Treatment, And Disposal. Our comments are listed below.

1) The plan was designed for a two bedroom residence. The application on file with this department is for a three bedroom residence.

2) The plan specifies that 600 linear feet of nitrification field will be installed. The lateral configuration accounts for only 540 feet of nitrification line.

3) The property boundaries have been changed since our original soil investigation was conducted. In addition the proposed installation does not appear to be located in the area where the soil evaluation was conducted. We will therefore need to have the proposed installation area designated so that additional tests may be made.

4) The proposed dosing volume appears to have been calculated according to established proceedures. The volume however exceeds the projected daily waste flow from a two bedroom house. It is recommended this volume be reduced so that the system will operate between two and four pumping cycles per day.

We will gladly reopen our review upon receipt of information addressing our comments.

Sincerely,

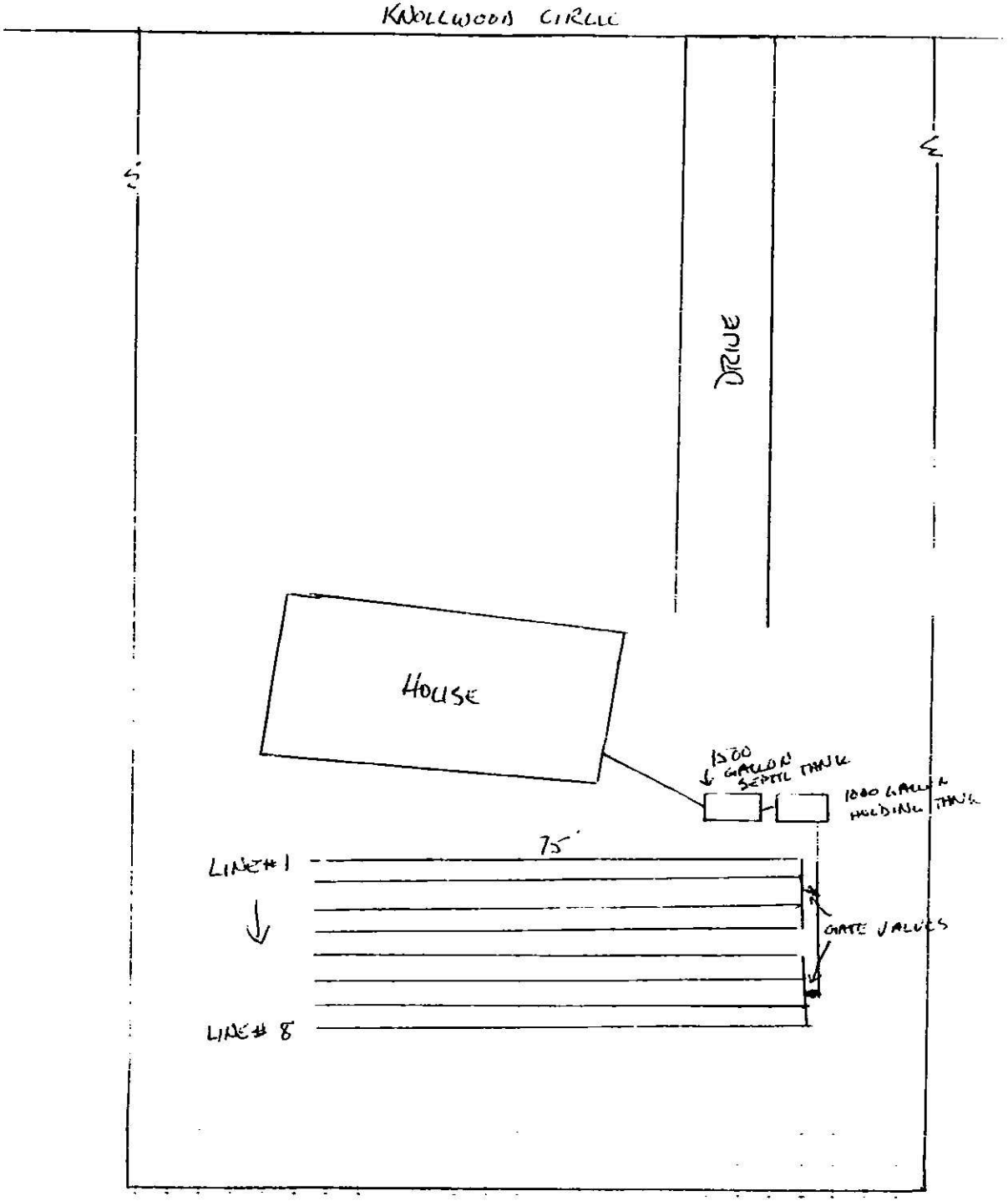
Bill D. Hardister, Jr.
Environmental Health Supervisor

BDH/kbg

cc: File 16242

SIR 16242

FIZAN LOPTA
LOT# 10 KNOLLWOOD



FRAN LOPTA
LOT A 10 KNOLLWOOD

SIR #624-

DAILY WASTE FLOW	2 BEDROOM HOUSE	300 GPD
SEPTIC TANK SIZE		1000 GALLON
PUMPING TANK SIZE		1000 GALLON
EFFLUENT LOADING RATE		0.1 GAL/FT²/DAY
ABSORPTION AREA		300 FT²
TOTAL LENGTH OF LATERALS		600 FT
LATERAL DIAMETER		1½" PRICE PVC PIPE
LATERAL CONFIGURATION	2 GROUPS	4 X 75'
SUPPLY LINE LENGTH		20'
SUPPLY LINE DIAMETER		2" SCH 40 PVC PIPE
MANIFOLD PLACEMENT		SIDE
PUMP REQUIREMENTS		32.4 GPM AT 2' TOTAL DYNAMIC HEAD
STORAGE VOLUME IN LATERALS		75 GALLONS
STORAGE VOLUME IN SUPPLY LINE		3 GALLONS
TOTAL STORAGE VOLUME		78
DOSING VOLUME		100 GALLONS
DOSING DEPTH		5 INCHES

LINE #	HOLE SIZE	HOLE SPACING	# OF HOLES	PRESSURE (HEAD)	FLOW PER HOLE	TOTAL FLOW
1	5/32"		10	2'	.41 GPM	4.1 GPM
2	5/32		8	3'	.5	4.0
3	¼		11	3½'	.35	3.9
4	¼		11	4'	.37	4.1
5	5/32"		10	2'	.41	4.1
6	5/32		8	3'	.5	4.0
7	¼		11	4'	.37	4.1
8	¼		10	5'	.41	4.1
						32.4

LAYOUT & DESIGN BY Dick Dietrich RS #655

Pressure Head 2.0
Elevation Head
Friction Head 1.0

SEE INSTRUCTIONS ON BACK

Date Received 5-14-84

ICAN(S) Application No 16242

T & No 049-261-10

(377-8867)

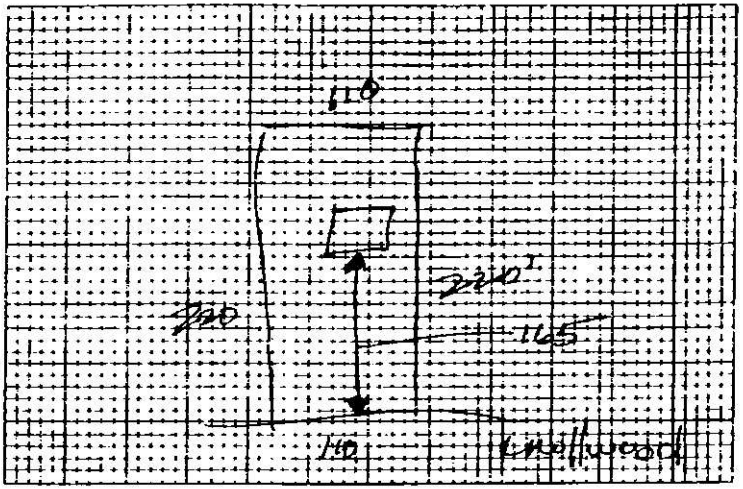
Map Date L

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH

Application for an
Installation, Construction, Alteration, and/or Repair Permit
(Individual Septic Tank System with Subsurface, Soil Absorption, Effluent Discharge)

The owner of that property described hereinafter hereby applies to the Mecklenburg County Department of Environmental Health for a permit to

1) ✓ Install or Construct 2) _____ Alter or Repair an individual septic tank wastewater treatment system with a subsurface soil absorption, effluent discharge.



3) PLOT PLAN (ACCURATELY DIMENSIONED)

Mobile Home ___ Yes ___ No
Residence ✓ Yes ___ No
4) No of Bedrooms 3
5) Business Use — Max No Employees ___
6) Washing Machine ✓ Yes ___ No
7) Garbage Disposal ✓ Yes ___ No
8) Dishwasher ✓ Yes ___ No
9) Water Supply ✓
A) Individual Well ___
B) Governmental System ___
C) Community System ___
1 Well source ___
2 Governmental source ___
10) Sewage System
House located within 200 feet of public sewer ___ Yes ✓ No
House located within 200 feet of community sewer ___ Yes ✓ No
11) FHA Case No ___
12) VA Case No ___

13) NAME OF OWNER LOPATA (LAST) FRANCIS (FIRST) ANTHONY (MIDDLE)

14) ADDRESS OF OWNER 1146 CHEPSTOW DR CHARLOTTE

15) PHONE NO Home HFA CONSTRUCTION CO. Office 567-0486

16) LOCATION OF SYSTEM 8104 KNOLLWOOD CIRCLE (STREET OR COUNTY ROAD)

17) SUBDIVISION KNOLLWOOD Lot No. 10 Block No. 21 H

Map Book No 49 Page No. 26

18) DEED REFERENCE — DEED BOOK ___ AT PAGE ___

19) HAS A SOIL INVESTIGATION BEEN RUN? ✓ YES ___ NO DATE RUN 1976 APX.

20) PTR NUMBER (See Instructions) ___

The undersigned person hereby agrees that he has read the foregoing application and that the contents of same are true It is understood that any permit applied for herein shall be void and of no effect if any of the above facts are not true.

MAY 14 1984
DATE OF APPLICATION

Francis A Lopata
OWNER

EHD-5-76

Environmental Health Department's Copy

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
1200 BLYTHE BOULEVARD
CHARLOTTE NORTH CAROLINA 28203

SIR. NO. 16242
T.C. NO. PO 049-261-10
DATE: 5-25-84

Francis A. Lopata
1146 Cheddington Drive
Charlotte, NC 28211

RE: Property located at 8104 Knollwood Circle

Dear Mr. Lopata:

At your request, a field investigation was conducted on the property designated above and was classified unsuitable for the installation of a ground absorption sewage disposal system. A copy of the site evaluation report is enclosed for your information.

Sites classified as unsuitable may be utilized for soil absorption disposal systems provided engineering, hydrogeologic, soil and environmental studies indicate that a suitable septic tank system or a suitable alternate system can be reasonably expected to function satisfactorily.

Should you desire to file for permission to install an alternate system, plans and specifications prepared by a person with a demonstrated knowledge of ground absorption sewage treatment disposal systems, soil and rock characteristics, groundwater hydrology and drainage systems should be submitted to this office. They will be reviewed and if it is found that the system may be reasonably expected to function satisfactorily, approval will be given upon the execution by you of "Septic Tank Agreemnt Form" provided by this office.

If I may be of assistance, please feel free to call.

Sincerely,

Bill D. Hardister, Jr.
Environmental Health Supervisor

BDH/kbg

Enclosure

DEPARTMENT OF ENVIRONMENTAL HEALTH
MECKLENBURG COUNTY, NORTH CAROLINA

SITE EVALUATION

S.I.R. NO. 16242

T.C. NO. 90 049-261-10

(Ground Absorption Sewage Disposal)

OWNER: ERAXIS LePATO
ADDRESS: 1146 Cheddington Dr Charlotte 28211
PLAT NO:
LOT SIZE: 24,200 .56
LOCATION OF SITE: Knollwood Lot 10

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4
1. SLOPE (%)	S PS U Complex slopes	S (PS) 2-4 U	S PS U	S PS U
2. SOIL TEXTURE (12-36 inches) Sandy, Loamy, Clayey (Note 2-1 Clay)	S PS U	S (PS) Clayey U	S PS U	S PS U
3. SOIL STRUCTURE (12-36 inches)	S PS U	S (PS) Blocky U	S PS U	S PS U
4. SOIL DEPTH (inches)	S PS U	S PS 24-36" (U)	S PS U	S PS U
5. RESTRICTIVE HORIZONS (Inches) (Impervious strata, Rock)	S PS U	S (PS) None U	S PS U	S PS U
6. SOIL DRAINAGE/GROUNDWATER (external and internal)	S PS U	S (PS) Adequate U	S PS U	S PS U
7. OTHER (Specify)	S PS U	S PS Restricted Area (U)	S PS U	S PS U
8. SOIL GROUP		IVa		
9. SITE CLASSIFICATION		Unsuitable Unsuitable		
10. SOIL SERIES		Indistinguishable Eroded Too much To identify		

S - Suitable PS - Provisionally Suitable U - Unsuitable

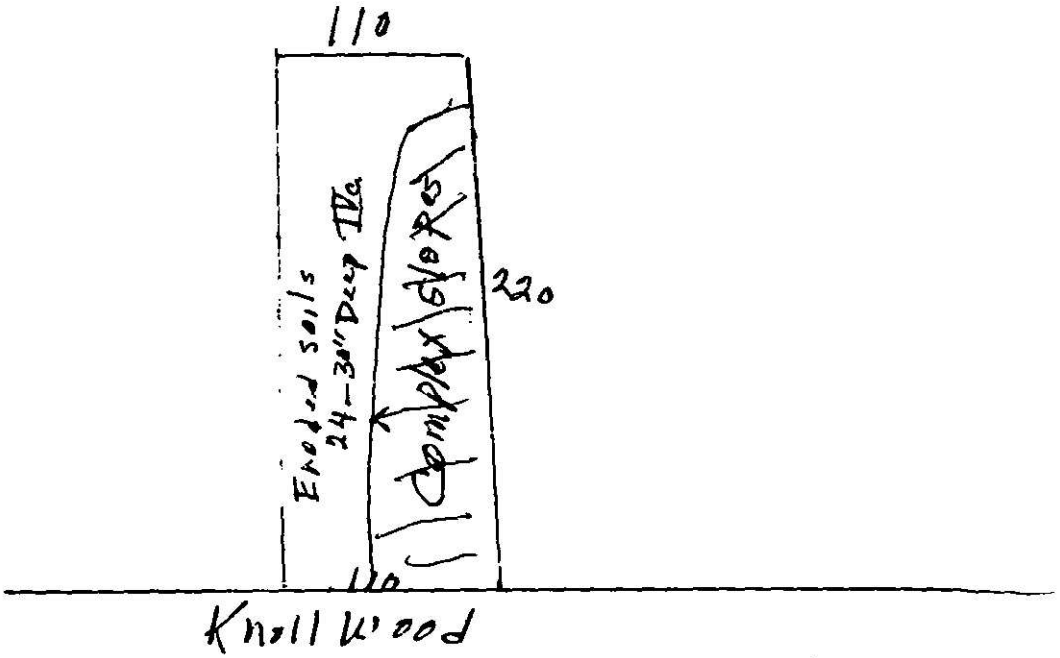
**See Diagram on Back (includes: soil areas, property lines, roads, streams, gullies, wet areas, fill areas, wells, water bodies, slopes)

Recommendations/Comments:

Described by: W. B. Ramsey
Title: Soil Scientist

Date: 5-23-84

2H


110
Eroded soils
24-30" Deep IIIe
Complex 6 to 20%
220
110
Knollwood

Date Received 5-14-84

RECEIVED
MAY 14 1984
ENVIRONMENTAL HEALTH

SIR No. 16242
ITC No. 049-261-10
Map Date L.

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH

APPLICATION FOR SOIL INVESTIGATION

1) NAME OF OWNER LOPATA (LAST) FRANCIS (FIRST) JOSEPH (MIDDLE)

2) ADDRESS OF OWNER 1146 CHERRINGTON DR CHARLOTTE ZIP 28211

3) PHONE NO Home 364-2216 Office 5670486

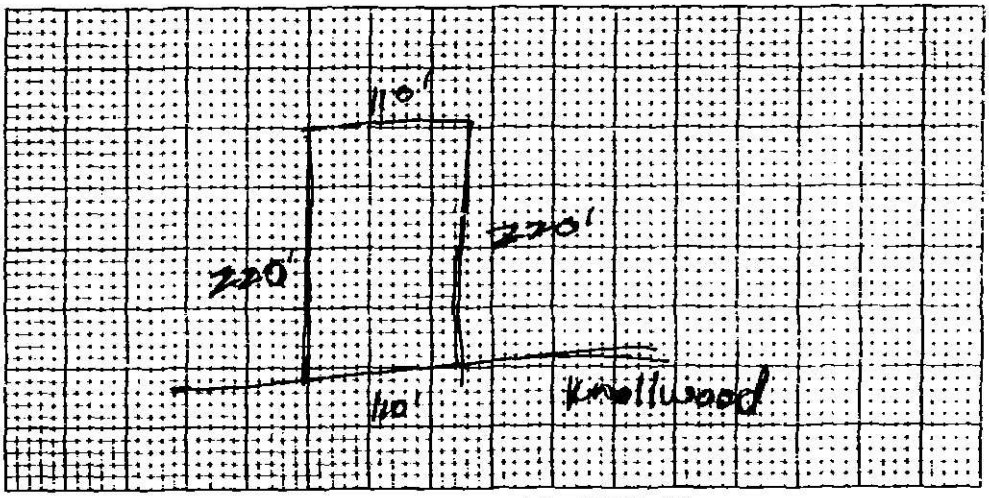
4) LOCATION OF PROPERTY 804 KNOLLWOOD CIRCLE (STREET OR COUNTY ROAD)

5) SUBDIVISION KNOLLWOOD LOT NO 10 BLOCK NO 2H

MAP BOOK NO 49 PAGE NO. 26

6) DEED REFERENCE DEED BOOK _____ PAGE NO. _____

Application is hereby made to the Mecklenburg County Department of Environmental Health for the conduct of a soil investigation and an on site inspection of the lot hereinabove described for the purpose of determining if the lot is suitable for the installation of an individual septic tank wastewater treatment system with subsurface, soil absorption, effluent discharge



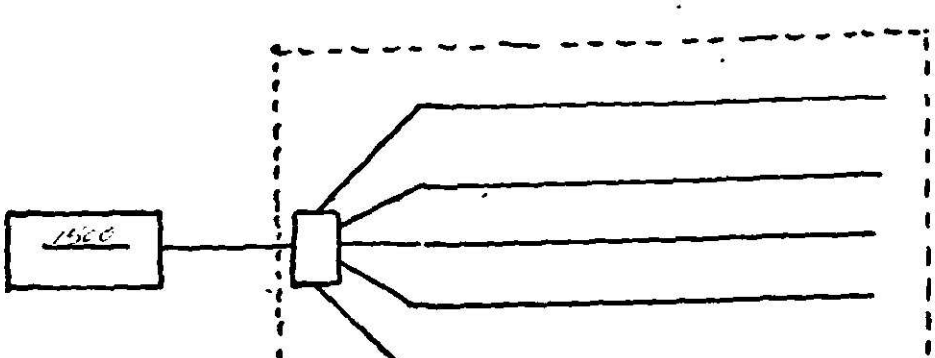
7) ACCURATELY DIAGRAM & DIMENSION LOT

Francis A Lopata
OWNER

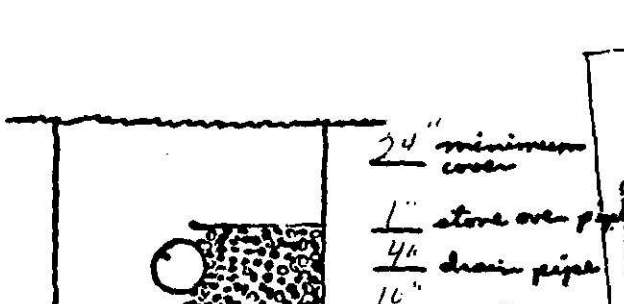
EHD-5-76

ENVIRONMENTAL HEALTH DEPARTMENT'S COPY

16242



4 drain pipe 59 "
long 3' on center
1765 sq foot
bottom area.
LINES 4 LINE
4 LINES 12 X .36 X 17



24" minimum cover
1" stone over pipe
4" drain pipe
10" under pipe
10" sand

DISAPPROVED
MECKLENBURG COUNTY ENVIRONMENTAL
HEALTH DEPARTMENT
FILE NO.
K.A.R. PERMIT NO.
DATE
BY

Submitted for consideration and approval:

Lot 10 Knollwood Circle.
Property Location Size 16 1/2

Owner's Signature

Bed System

SEE INSTRUCTIONS ON BACK

Date Received 2/27/80

ICAR (S) Application No 16242

T C No 78-144-261-10

Map Date

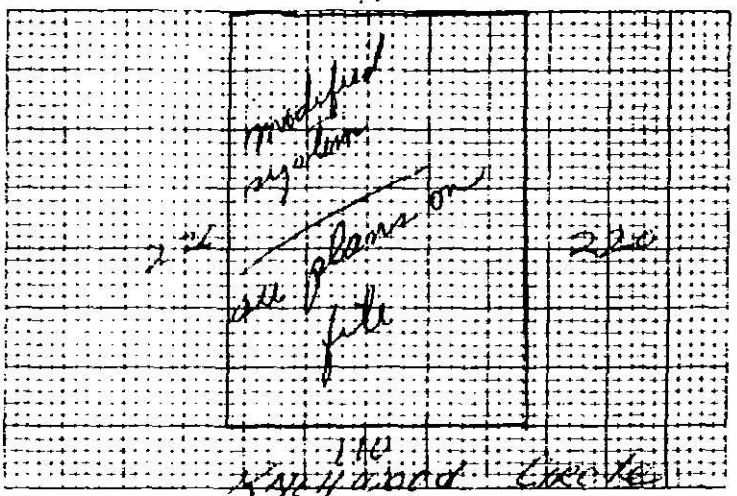
MECKLENBURG COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

Application for an
Installation, Construction, Alteration, and/or Repair Permit
(Individual Septic Tank System with Subsurface, Soil Absorption, Effluent Discharge)

The owner of the property described hereinafter hereby applies to the Mecklenburg County Health Department for a permit to:

1 ✓ Install or Construct 2 ___ Alter or Repair an individual septic tank wastewater treatment system with a subsurface, soil absorption, effluent discharge



3 PLOT PLAN (ACCURATELY DIMENSIONED)

4) No of Bedrooms 3

5) Business Use — Max No Employees ___

6 Washing Machine ✓ Yes ___ No

7) Garbage Disposal ✓ Yes ___ No

8) Dishwasher ✓ Yes ___ No

9) Water Supply
A) Individual Well ✓
B) Governmental System ___
C) Community System:
1 Well source ___
2. Governmental source ___

10) Sewage System
House located within 200 feet of public sewer ___ Yes ___ No
House located within 200 feet of community sewer ___ Yes ___ No

11 FHA Case No ___

12 VA Case No ___

13) NAME OF OWNER Civil Realty, Inc. (LAST, FIRST, MIDDLE)

14) ADDRESS OF OWNER [illegible] Charlotte NC 28218

15) PHONE NO Home [illegible] Office ___

16) LOCATION OF SYSTEM Hazelwood Circle (STREET OR COUNTY ROAD)

17) SUBDIVISION [illegible] Lot No. 16 Block No. 1

Map Book No 16 Page No. 77

18) DEED REFERENCE — DEED BOOK ___ AT PAGE ___ unavailable

19) HAS A PERCOLATION TEST BEEN RUN? ✓ YES ___ NO DATE RUN Oct 8, 1979

20) PTR NUMBER (See Instructions) ___

The undersigned person hereby agrees that he has read the foregoing application and that the contents of same are true. It is understood that any permit applied for herein shall be void and of no effect if any of the above facts are not true.

DATE OF APPLICATION 2/26/80

OWNER John R Civil

FORM NO E-4-4 1-??

HEALTH DEPARTMENT'S COPY

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
1200 BLYTHE BOULEVARD
CHARLOTTE, NORTH CAROLINA

SITE INVESTIGATION REPORT
INDIVIDUAL SEPTIC TANK SYSTEM
WITH SUBSURFACE,
SOIL ABSORPTION,
EFFLUENT DISCHARGE

SIR.NO. 16242
T.C.NO po 049-261-10
MAP DATE
DATE October 19, 1979

NAME OF OWNER John Civil, Civil Realty Co.

ADDRESS OF OWNER PO Box 12054, Charlotte, NC 28205

LOCATION OF LOT Knollwood Circle, Lot 10

At your request and pursuant to Section .1900 of the North Carolina Administrative Code, Title 10, Department of Human Resources, Chapter 10, Health Services, Subchapter 10A, a site evaluation has been made for an on premises ground absorption sewage disposal system on the property designated above and the following conditions were found:

Soil Structure Massive
Soil Permeability Unsuitable
Site Classification Unsuitable

Sites classified as Unsuitable are not acceptable for soil absorption of sewage effluent. However, if engineering, geologic, soil, and environmental studies indicate that a suitable septic tank system or a suitable alternate system can be expected to function satisfactorily, such sites may be re-classified as Provisionally Suitable. (Section 10 of the North Carolina Administrative Code 10 A,.1910)

If you desire to file for permission to install an "alternate or modified" system, you should present this office with your proposals in the form of plans and specifications. These would be reviewed and if it is found that the system may reasonably be expected to function satisfactorily, approval may be given on the execution by you of a "Septic Tank Agreement Form" available in this office.

John R. Adkisson

John R. Adkisson, Environmentalist

S.I.R. NO. 16242

NORTH CAROLINA
DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES
RALEIGH, NORTH CAROLINA

APPENDIX H
SITE EVALUATION

T.C. # 1' 144-2-2

(Ground Absorption Sewage Disposal)

OWNER: Cecil Builders Inc
ADDRESS: 2 Pine Valley Rd
COUNTY: Charlotte, N.C. 28210
LOCATION OF SITE: Rockwood Circle

DATE REQUESTED:
PLAT NO.: Pt Lot #10
LOT SIZE: 22,000

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4
1. SLOPE (%)	(S) PS 2-12 U	(S) 2-6% PS U	S PS U	S PS U
2. SOIL TEXTURE (12-36 in.) (Sandy, loamy, clayey, Note 2:1, Clay)	S PS 2-1 Clay (U)	S PS 2-1 Clay (U)	S PS U	S PS U
3. SOIL STRUCTURE (12.36 in.) (Clayey Soils)	S PS Massive (U)	S PS Massive (U)	S PS U	S PS U
4. SOIL DEPTH (In.)	S PS 48" (U)	(S) 48" PS U	S PS U	S PS U
5. RESTRICTIVE HORIZONS (In.) (Imprevious Strata, Rock)	(S) None PS U	(S) None PS U	S PS U	S PS U
6. SOIL DRAINAGE/GROUNDWATER (External & Internal)	(S) 72"+ PS ground U water	S Drainage- PS way (U)	S PS U	S PS U
7. SOIL PERMEABILITY (Percolation Rate)	S Slow PS U-Slow (U)	S U. Slow PS (U)	S PS U	S PS U
8. OTHER (Specify)	S PS U	S PS U	S PS U	S PS U
9. SITE CLASSIFICATION	✓ Unsuitable	Unsuitable		
SOIL SERIES	Mecklenburg	Drainageway		

S - Suitable PS - Provisionally Suitable U - Unsuitable

* See Diagram on Back (Include: Soil areas, property lines, roads, streams, gullies, wet areas, fill areas, wells, water bodies, slope patterns, etc)

Recommendations/Comments: Jet suckerhead 6-1-84 soil Report. from 12" to Approx 24-30" Mck Mecklenburg soil Scientist

Described By: William B Martin

Title: Soil - Scientist Date: 10-18-77

DHS Form 2601 (2/77)
Sanitation

Date Received 10/16/79

MECK COUNTY DEPARTMENT OF
RECEIVED
OCT 10 1979
ENVIRONMENTAL HEALTH

APT No. 16242
T C No 049-261-10

Map Date

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH

APPLICATION FOR SOIL INVESTIGATION

1) NAME OF OWNER Civil (LAST) Realty, Inc (FIRST) (MIDDLE)

2) ADDRESS OF OWNER PO 18054 Charlotte NC ZIP 28218

3) PHONE NO Home 535-0509 Office

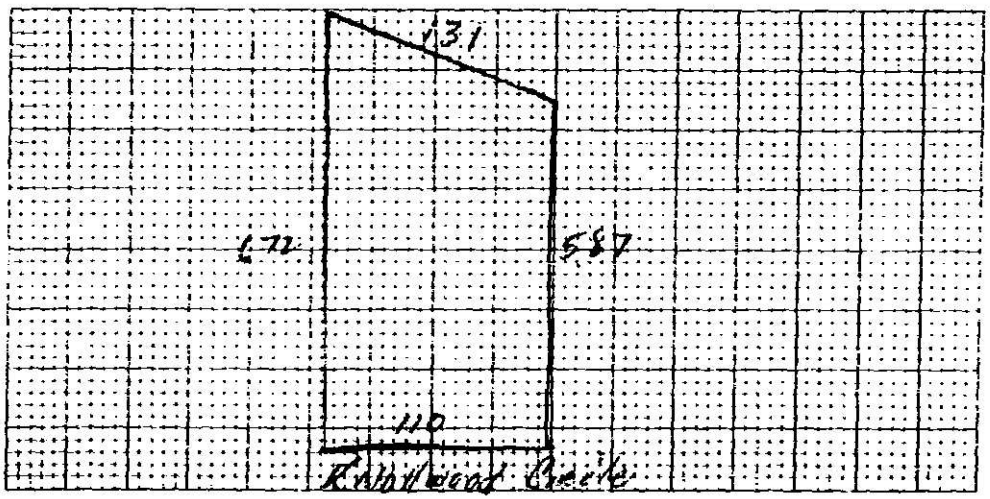
4) LOCATION OF PROPERTY Knollwood Circle (STREET OR COUNTY ROAD)

5) SUBDIVISION Knollwood Hgts LOT NO 10 BLOCK NO

MAP BOOK NO PAGE NO

6) DEED REFERENCE DEED BOOK PAGE NO

Application is hereby made to the Mecklenburg County Department of Environmental Health for the conduct of a soil investigation and an on site inspection of the lot hereinabove described for the purpose of determining if the lot is suitable for the installation of an individual septic tank wastewater treatment system with subsurface soil absorption effluent discharge



7) ACCURATELY DIAGRAM & DIMENSION LOT

OWNER John A. Civil

EHD-S-76 Rocky River Rd Environmental Health Department's Copy