

16816 FIDLER LN

00153121

12/27/2007

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: 2237-B DATE: _____

TC: 001-531-21 ☐ L ☐ CRT

SERIAL Nº 17801

Name of Owner Irvin Hagar Juris.: _____

Address of Property 16016 Fiddler Lane

Inspection Data:

Tank Material PCC

Total Length of Drainfield _____

Number of Lines _____ @ _____

Cover Depth _____

Water Supply Source _____

Distance to Water Source _____

Excavation Inspected _____

Tank(s) Inspected 10-15-98

Wash Line Inspected _____

High Water Alarm Inspected _____

TANK INSTALLED
and tested
house sewer hooked
to City Sewer
line

PLOT

Design _____ CTR# Bobby Mayhew

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: _____

_____

_____

_____
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: 2237-B DATE: 10 - 12-98

TC: 80 001 531-2 ☐ L

SERIAL Nº 17888

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 _____. All work shall be completed on or before 11-12-98, 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 1500 gallons

Tank Construction plc

Trench Depth see plan

Absorption and/or Nitrification Lines:

Trench Width 2' feet

Trench Walls Scored and Porous yes

Total Line Length 200 feet

Number of Lines see plan

Depth of ~~Stone~~ Sand inches

Distance from House 5'+ feet

Distance from Property Line 10'+ feet

Distance from Well CMUD feet

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

NAME OF OWNER IRVING HAGER

LOCATION OF PROPERTY 16816 Fiddler Lane

Comments: install w/ plan on file - prop owner elected to install 1500 gallon pump tank

Sally Ball

Environmental Health Specialist

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

CK# 1357

FEE: 200.00 **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION**
DATE: 11/12/97 **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

DATE: 10-28-97 **PERMIT NO:** 2237-B
PARCEL NO: 00-001-531-21

JOB LOCATION ADDRESS: 16816 Fidler Lane
PROPERTY OWNER: Irving Yager
BUILDING CONTRACTOR:
SUBDIVISION NAME:
AUTHORIZATION ISSUED BY: Holly H. Randall **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. 2237-B, 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:
- agreement forms must be executed and recorded prior to installation approval
- certified operator required type IV PPBPS
- install w/ plan on file

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 _____ 10/29/97
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

CHARGE PY #08972

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION

Charge Slip

Date: 11/12/97

Name/Company: Irving Harper

Sanitation _____

Vector Control _____

IWWS X

Service: Const. Author.
Operation point
16816 Fidler La.
File 22378

Fee: $ 200.00

ck # 1357

NOTICE:

A processing fee of $20.00 will be charged for all returned checks in accordance with N.C. General Statute 25-3-512.

Completed by

Collected by 11/12/97 gd

Permit Number: 2237-B

CONDITIONS OF IMPROVEMENT PERMIT

Tax Number: 00001-53121

- 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

.3 Long-term acceptance rate	360 Max gallons/day wastewater flow	100 Absorption Area (sq ft)	8 Trench spacing (min. on centers)
No Serviced by private well	1500 Gallon septic tank	100 Total trench length (ft)	36" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)
3 Bedrooms in residence	1000 Gallon pump tank	20" Depth of ~~stone~~ SAND	

Any surface waters present: yes Type: lake Norman Minimum separation distance: 50'

Site modifications required: NO

Additional Conditions: - agreement forms must be executed and recorded prior to installation approval -
- certified operator required type IV PBPS system
- install w/plan on file

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

400 Absorption Area (Sq ft) 200 Total Trench Length (Ft)	30" Depth ~~of Stone~~ SAND Trench	8 Trench spacing (min. on centers)	30" 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.

DEHNR Authorized Agent — Date 10 20 97

Owner/Agent Signature — Date 10/29/97

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

Mecklenburg County
Health Department

October 6, 1997

Mr. Lonnie Hager
P.O. Box 455
Huntersville, NC 28078

Re: 16816 Fidler Lane
File: 2237B
Parcel: 001-531-21

Dear Mr. Hager:

Receipt of your Application for Improvement Permit for the above referenced property is acknowledged. A soil evaluation and a site visit have been conducted. The results of the evaluation indicated that the site is **UNSUITABLE** under Rule .1945 **AVAILABLE SPACE.** For this reason your Application for Improvement Permit is denied. A possible way to develop the site exists under Rule .1948(d) which reads as follows:

> 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-toxic, and non-hazardous;
> (2) the effluent will not contaminate ground or surface water; and
> (3) the effluent will not be exposed on the ground surface or be discharged to surface waters where it could come in contact with people, animals, or vectors.

The State shall review the substantiating data if requested by the local health department.

Please be advised that you have the right to an informal review by this department. You also have the right to appeal under G.S. 130A-24, and to have the appeal held in Mecklenburg County.

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

Sincerely,

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

PEOPLE • PRIDE • PROGRESS

Environmental Health Division
700 North Tryon Street • Suite 211 • Charlotte, North Carolina 28202-2236

Mecklenburg County
Health Department

Oct 1997
~~November 1996~~

Mr. Lonnie Hager
P.O. Box 455
Huntersville, NC. 28078

Re: 16816 Fidler Lane
File: 2237 B
Parcel: 001-531-21

Hager
Dear Mr. ~~Ferguson:~~

Receipt of your Application for Improvement Permit for the above referenced property is acknowledged. A soil evaluation and a site visit have been conducted. The results of the evaluation indicated that the site is **UNSUITABLE** under Rules .1946 Available Space . For these reasons your Application for Improvement Permit is denied. A possible way to develop the site exists under Rule .1948(d) which reads as follows:

> 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-toxic, and non-hazardous;
> (2) the effluent will not contaminate ground or surface water; and
> (3) the effluent will not be exposed on the ground surface or be discharged to surface waters where it could come in contact with people, animals, or vectors.

The State shall review the substantiating data if requested by the local health department.

Please be advised that you have the right to an informal review by this department. You also have the right to appeal under G.S. 130A-24, and to have the appeal held in Mecklenburg County.

If you have any questions regarding this matter, please call me at 336-5575.

Sincerely,

~~Kelly Randall, R.S., Soil Scientist~~
~~Individual Water and Wastewater Systems~~

Larry Thompson

PEOPLE • PRIDE • PROGRESS

Environmental Health Division
700 North Tryon Street • Suite 211 • Charlotte, North Carolina 28202-2236

DIVISION OF ENVIRONMENTAL [illegible]
ON-SITE WASTEWATER SECTION

COUNTY: _____

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

#2 22378
PO 001-531-21

OWNER: Jonnie Yager
APPLICANT: _____
ADDRESS: Rt 1 Box 455 Hamberwell
APPLICATION DATE: _____
DATE EVALUATED: _____
PROPOSED FACILITY: residence
PROPOSED DESIGN FLOW (.1949): 360gpd
PROPERTY SIZE: .6 ±
LOCATION OF SITE: 16816 Fiddler Lane
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) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFI CLAS & LT/
1	LS	0-2"	gr/cL	Fr/SEXP/SS/SP	>30" TO soil wetness	30"	N/A	None	US IV 13g/
		2-24"	SBK/ cL	Fr/SEXP/SS/P					
		24-30"	SBK/ scl	Fr/SEXP/SS/SP					
2	LS	0-4"	gr/ cL	Fr/SEXP/SS/SP	>43" TO soil wetness	43"	N/A	None	PS .33/ LE
		4-40"	SBK/c	Fr/SEXP/SS/P					
		40-43"	SBK/cl	Fr/SEXP/SS/SP					
3	LS	0-2"	gr/ scl	Fr/SEXP/SS/SP	>44" TO soil wetness	44"	N/A	None	PS .37/ LE
		2-38"	SBK/c	Fr/SEXP/SS/P					
		38-44"	SBK/ cl	Fr/SEXP/SS/SP					
4	LS	0-2"	gr/ cL	Fr/SEXP/SS/SP	>36" TO soil wetness	36"	N/A	None	PS .39/ LE
		2-30"	SBK/c	Fr/SEXP/SS/P					
		30-39"	SBK/ 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. R. Merlin 10-19-1
OTHER(S) PRESENT: LSS

COMMENTS: 1109 Repair - Property Line
Subdivide

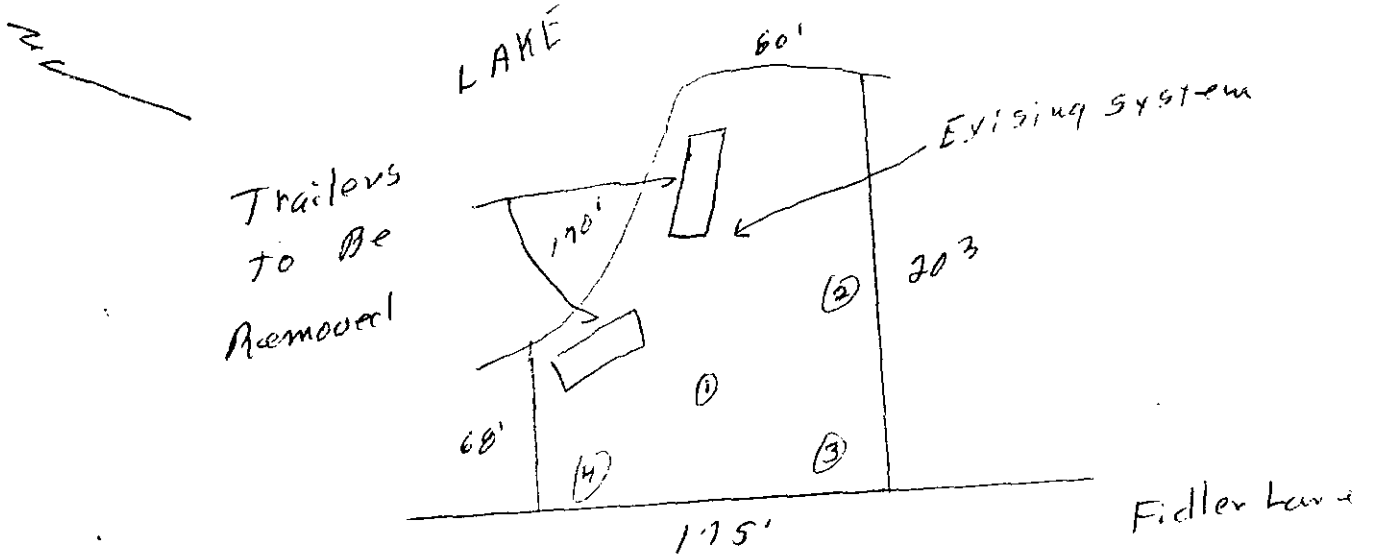
LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL 1955 LTAR	LPP 1957 LTAR	MINERALOGY/ CONSISTENCE	STRUCTURE
C (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
V (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
(Drainage Way)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3	EXP (Expansive)	CR (Crumb)
S (Debris Slump)		L (Loam)				GR (Granular)
P (Flood Plain)						SBK (Subangular Blocky)
S (Foot Slope)	III	SI (Silt)	0.6 - 0.3	0.3 - 0.15		ABK (Angular Blocky)
(Head Slope)		SICL (Silty Clay Loam)				PL (Platy)
(Linear Slope)		CL (Clay Loam)				PR (Prismatic)
(Nose Slope)		SCL (Sandy Clay Loam)			MOIST	WET
(Ridge)		SUC (Silt Loam Clay)				
(Shoulder Slope)					VFR (Very Friable)	NS (Non-sticky)
(Terrace)	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SIC (Silty Clay)			FI (Firm)	S (Sticky)
					VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None		EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

OTES
ORIZON DEPTH — In inches below natural soil surface
EPTH OF FILL — In inches from land surface
ESTRICTIVE HORIZON — Thickness and depth from land surface
APROLITE — S(suitable) or U(unsuitable)
OIL WETNESS — Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designatic
LASSIFICATION — S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)
valuation of saprolite shall be by pits.
ong-term Acceptance Rate (LTAR): gal/day/ft²

Show profile locations and other site features (dimensions, reference or benchmark, and North).



FEE: 100.00 Chk # 1305
DATE: 9/17/97 SC

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 #: 22378

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 001-531-21

STREET ADDRESS: 16816 Fidler Lane

SUBDIVISION OR MOBILE HOME PARK NAME: N/A

LOT NUMBER: N/A

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: 2800

NUMBER OF BEDROOMS: 3 NUMBER OF OCCUPANTS: 1

FOUNDATION FOR RESIDENCE:

___ WITHOUT BASEMENT
___ ON SLAB
___ CRAWL SPACE
✓ WITH BASEMENT /PLUMBING
___ WITH BASEMENT /NO PLUMBING

TOWNSHIP (CHECK ONE):

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

CLOSING DATE_____

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)
X 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
EXISTING WASTEWATER SYSTEMS ___ YES ✓ NO
EASTMENTS OR RIGHT-OF-WAYS ___ YES ✓ NO
WELL, SPRINGS OR WATERLINES ___ YES ✓ NO
DESIGNATED WETLANDS ___ YES ✓ NO

PROPERTY OWNER:	LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: HAGER (LAST) LONNIE (FIRST) NO (MI)	NAME: HAGER (LAST) IRVIN (FIRST) R (MI)
ADDRESS: P.O. Box 455	DAYTIME PHONE: 704 875 - 1696
CITY: Huntersville STATE: N.C. ZIP: 28078	
DAYTIME PHONE: 704 875 - 6883	

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 62'

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: Lonnie Hager DATE: 9-15-97

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

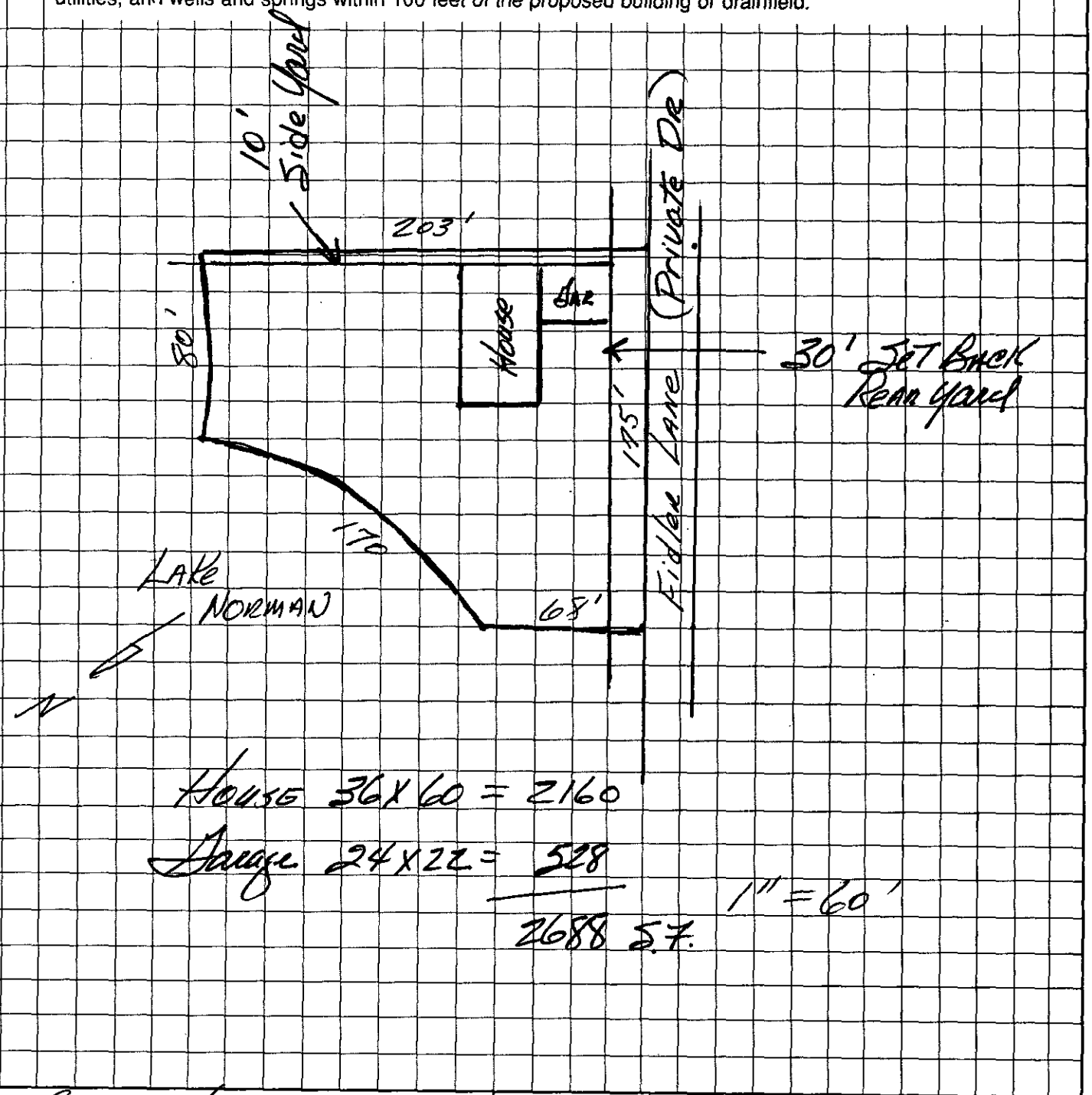
PROPOSED PLOT PLAN

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

FILE: 2237B

TC: 001-531-21

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.



Lonnie Hager
OWNER/AGENT SIGNATURE

DATE 9-15-97

APPROVAL DATE _____

White - Health Department's Copy

Canary - E.H.S. Copy

Pink - Owner's Copy

LOW PRESSURE T&J PANEL SYSTEM PLAN

16816 FIDLER LANE

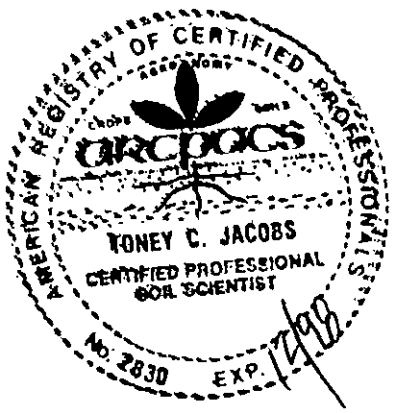
MECKLENBURG COUNTY - NORTH CAROLINA

File Number 2237B Tax Map Number 001-531-21

by

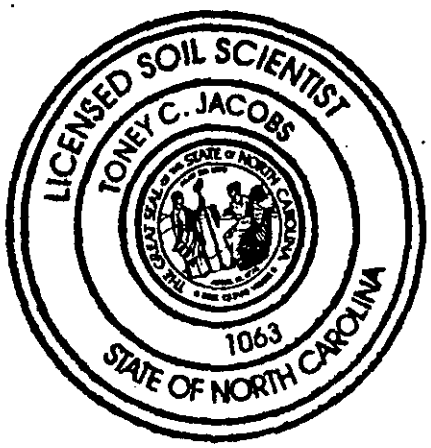
Toney C. Jacobs & Associates, Inc.
Consulting Soil Scientists
168 Broadbill Drive
Mooresville, N. C. 28115

October 22,1997



Submitted to: Mr. Kelly Randall, R. S.
Mecklenburg County Health Dept.
Charlotte, N. C.

Mr. Irvin R. Hager
P. O. Box 667
Huntersville, N. C. 28078



Paul G. Penninger

Toney C. Jacobs

16816 Fidler Lane

PRESSURE DISTRIBUTION T & J PANEL SYSTEM

Design Considerations

The proposed system is for a 3-bedroom home in an older waterfront subdivision of single family mobile homes and stick-built residences in northern Mecklenburg County. This lot was formally used for 3 mobile homes, 2 of these will be removed. The lot has been recently surveyed and the remaining mobile home and system are a self-sufficient unit. The building lot has also had a recent topographic map prepared and it is included in the plan. The house, two-car garage, drive, and lake setbacks utilize a great deal of the usable lot area. All the available area is needed for the system and 100% repair. Repair is needed because of recent plat changes and lot combination. Our two soil profile examinations were under the two gravel parking pads and this soil was not hurt by the parking activities. Mr. Bill Marlin had recently examined the soil and found it to be provisionally suitable for a panel system. House placement on the lot is within the lake and zoning setbacks is critical to this plan. The proposed house had been field staked by the owner. Because of limited space, we ran string between the pins to verify required setbacks. Only minor adjustments may be made in house and tank placement. The neighboring lots are generally small with medium to large sized homes. Because of the severe space limitations the panel block system was considered as the only option for the lot. The area is served by public water. There is a water meter <10' from the septic lines and this must be relocated. The lines have been setback 10' from the water service line which has been recently located and marked with blue paint. The septic system drainfield was flagged in the field as shown in Figure 1. The system and repair will be a pressure dosed panel block system because there is only minimal usable area on the lot. Our first attempt was the chamber system, but this could not be fitted on the lot. During construction extreme precautions should be taken to prevent damaging the system area. The system area would be an obvious parking, storage, and staging zone for building, but cannot be used as such. Flagging or fencing the system and repair area would keep traffic off the system area during construction. This is offered as a suggestion, but is highly recommended. If the area is damaged beyond repair, the area could be deemed unsuitable for a septic system. This could happen even after the house is built (see warning).

Location

The 0.59 acre building lot is on the right near the end of Fidler Lane off Norman Island Drive off Hwy. 73 west.

Reference

(1) *Design and Installation of Low Pressure Wastewater Treatment Systems,* by Craig Cogger, Bobby L. Carlisle, Dennis Osborne, and Ed Holland. UNC Sea Grant UNC-SC-82-03, May 1982.

(2) *Laws and Rules for Ground Absorption Sewage Disposal Systems 15A NCAC 18A. 1900,* NCDEHNR-DEH.

(3) *Design, Installation and Maintenance of the T & J Panel Wastewater treatment System for Sanitarians and Septic Tank Installers,* 1988.

Recommendation

Two Hundred (200) lineal feet of pressure T & J lines.

Ownership Responsibility for a LPP Distribution System

Conservation measures should be undertaken in plumbing fixture specifications to minimize the volume of wastewater entering the disposal system, including, but not limited to the following precautions:

(a) Provide water conserving plumbing fixtures within the facility. Waterclosets must be 1.6 gal. flush (per code). Showerhead should also have restrictions or be of low volume design.

(b) Develop conservative water use habits.

(c) Monitor and maintain the system as necessary for proper operation. An Operation Permit will require a maintenance contract to be filed with the Mecklenburg County Health Department. It is recommended that the owner aggressively utilize this requirement because of its importance to system longevity. The management entity (certified operator) should be a part of installation process. If installed by other, it would be best if operator was consulted for a preclosure inspection.

(d) Develop conservative water use habits. If weekends are the time of significantly more water use and weekdays are less, system should be reworked with timer rather than floats for flow equalization. This modification could be made by a certified operator at a later date if determined advantageous. This is included because some lake houses are

used more for weekend entertaining. Since this will be the full time Hager residence this probably does not apply.

System must be properly installed by a *qualified* and *competent* contractor following the requirements of the Mecklenburg County Department of Environmental Health, DEH, the N.C. Building Code, Plumbing Code, and the Electrical Code. This plan, as any, is a guide to a minimum standard, but cannot take the place of experience and common sense. County inspector should allow additional inspection time because of complexity of system and need for exacting levels.

Components of System

1. Two compartment septic tank - 1500 gal.
2. Pumping tank - 1000 gal.
3. Submersible effluent pump and level controls - SSOMA certified
4. High water alarm signals which are UL approved
5. Supply pipe
6. Gate valves
7. Five unequal laterals totaling 200' with LPP distribution and T & J Panels in ground absorption trenches, 2 feet wide, level end to end. If the installer does not understand this or its importance, he should not begin construction until certain of all requirements.

Construction Sequence

1. Lines have been flagged as noted on drawing and in specifications.
2. Clear the area of shrubs, trees, and old gravel with minimum soil disturbance (DO NOT GRADE).
3. Install trenches per cited reference material and this plan. There should be one hole near the center of each panel, pointed up. Top grade on pipes to be "level" from end to end and this checked by sanitarian. There is only 5" maximum elevation change across the lot, so only a minor variation in depth will accommodate level panels. (Note: This is a five valve designed system and uses one size hole. The five-valve design was chosen for maximum flexibility in the operation of the system.)
4. All joints in lateral manifold piping shall be watertight connections to insure that the only source of water seepage from the system is through the orifices as designed.

Carefully install manifold and lateral network according to the attached design layout. Protect valves with valve box. A larger diameter protective sleeve with cap or approved box with lid shall be placed over the turned up lateral and positioned level with the ground surface (so as not to be damaged by mowing machine). Turn-up with two 45 degree elbows, not one 90. Area around pipe should be stabilized with crushed stone, both inside and outside of riser. Stone allows for infiltration of waste and wash water when system is maintained.

5. Carefully backfill manifold trenches to grade with clean clay or clay loam soil fill material which is carefully placed and compacted. Do not use the pea gravel from the parking lot for this.

6. The installation contractor shall stabilize the area of construction by planting with Kentucky 31 tall Fescue and mulching. Area to be limed and fertilized with 0.5 tons lime, 75 units of N, 150 units P, and 100 units of K per disturbed acre.

7. The septic tank shall consist of an approved 1500 gallon capacity reinforced, precast watertight, concrete tank with full baffle and shall have easy access to each chamber from ground level for inspection. The first chamber of the septic tank shall consist of 2/3 to 3/4 of the volume of the total tank and the baffle shall contain a horizontal opening across the tank at about midway . Locate the septic tank at such height as to provide approximately 8" of cover soil over top of the tank. The tank must be 50' from the lake and 5' from the foundation as it is cited below the floor level of the basement.

8. The dosing tank shall consist of an approved 1000 gallon capacity, reinforced, precast, watertight concrete tank without baffle and shall have a concrete mounting pad (concrete blocks) for accommodating the pump. Test for leakage per regulations.

Provide access for entry into the tank directly over the pump location, and extending 6" above final grade. Use a 30" diameter concrete well casing or equivalent and concrete well cap or other approved type cover. There must be a seal (masonry or seal rope) between well tile and top of tank. The same setbacks apply from #7.

9. All piping and fitting shall be SCH 40 PVC. Glue for all PVC pipe joints shall be as recommended by the pipe manufacturer. Note: On the distal end of each lateral turn-up should be 2 each, 45-degree elbows, rather than one 90 to facilitate maintenance.

10. Pump: The submerged pump shall be Model ME 33 manufactured by Myers or equal, 115 or 230 v/l phase; capable of pumping 23.0 gallons per minute at 19.2' of head.

11. Pump controls and alarm to meet specifications of .1952, all being compatible.

12. A "Warning Sign" shall be located within the house to inform the occupants of action to take in case the "High Water Alarm" is activated. This sign shall contain the name, address, telephone number, and emergency telephone number of the person to contact upon malfunction of the system. This should be "management entity".

13. Pump and Controls: Details of pump installation are shown in the plan. The pump must be placed on concrete blocks on the bottom of the tank. This prevents the pumping of any solid particles which can clog the pipe system. A piece of nylon rope or other non-corrodible material should be attached to the pump and the outlet pipe for lifting the pump in and out of the chamber. Controls should be fastened to a "tree" or the outlet pipe with clamps or brackets supplied by the manufacturer. The lower level control or "pump-off" must be positioned above the pump, so that the pump remains submerged at all times. The level control "pump-on" is positioned to pump a specified volume of effluent. The high water control float is then mounted about 3" above the upper pump-on control. (Note: Care must be taken to insure that floats do not become fouled by other components in the tank, such as the electric power cord or the lifting rope. It is highly recommended that a telescoping "tree" be used for floats to facilitate adjustments.) The pump outlet pipe should be connected to the supply manifold with a threaded PVC union (or dresser coupling) to allow quick removal.

14. Electrical Connections: The pump and high water alarm must be placed on separate electrical circuits. (If the pump circuit fails, the alarm must still be able to operate). Follow the manufacturer recommendations for the proper fuses or circuit breakers. All electrical connections must be made outside the pumping chamber. Power cords from the pumps and controls should be plugged into a NEMA 4X approved outdoor receptacle. This must not be located inside the pumping chamber due to the corrosive and explosive gasses that may form from the sewage. This box must be a minimum of 1' above finished grade. Some level control switches have a box built into the housing, but are more expensive than the plug-in devices. Wiring between the

pumping chamber and the station should meet State and local code requirements. A lightning arrester is recommended to protect the pump and controls from electrical surges.

15. Proper Operation Check: After all components have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pumping chamber with water from garden hose until the liquid rises to the level of the high-water alarm float. Turn on the electrical power. The alarm light should go on in the house, and the pump should start operating. The alarm light should go off when the liquid reaches the lowest float control. Be sure the pump is still completely submerged.

16. Pressure Head Adjustment: The pressure head must be adjusted to match that specified in the design. The pressure head is measured as the height liquid will rise above the turn-up elbow when the pump is running. To adjust the head:

(a) Glue a 4' length of pipe (preferably clear) to a threaded adapter that will screw onto the turn-up adapters. (Call this the "test tube".)

(b) Replace the turn-up cap with the "test tube".

(c) Adjust the gate valves until the effluent reaches the desired height in the "test tube". This may also be done with a weep hole in solid pipe at the desired height. Strive to be within 1/8" accuracy. Remember to include the distance below the ground surface to the lateral line when measuring the height. The pressure head should be 3' for each line. This is the height above the lateral where the liquid should be in the temporary "test tube". All five lines must have the same 3' of head at the same time.

17. Final Landscaping: After the system is installed, the absorption field should be reshaped to shed rainwater and be free of low areas to insure that the system will not be overloaded with excess rainwater and run-on.

Concluding Note:

This plan was done to facilitate permitting by the Mecklenburg County Health Department by an agent of the owner. Any additions, or additional requirement(s), or deletions to enhance design or workability which will facilitate a permit are welcomed and may be made by note on this plan without returning entire design. The designer realizes that a plan with as many details as this can be changed and/or improved upon. The installer must realize that this is an exact plan and must be installed with exacting measurements. Should the installer desire a change, it must be approved by the health department in writing. Final inspection will also require more time and detail than a conventional system. If there are questions, please give me a call. Should the Mecklenburg County Health Dept. require Toney C. Jacobs & Assoc. to provide inspection or additional work because of installation changes, this will be billed to the owner at the current billing rate.

Design Specifications

16816 Fidler Lane

Daily design flow:	360 gpd. - 3-bedroom house
Septic tank size:	1500 gal. (2 compartments)
Pumping tank size:	1000 gal.
Effluent loading rate:	0.3 gpd/sf conventional for system,
Total length and diameter of supply lines:	app. 65' lf 2 sch 40 PVC
Number and length of laterals:	5 lines 26' to 60' end fed; 1¼" sch 40 PVC.
Hole size:	5/32"
Hole spacing:	1 per panel
Total number of holes:	46 (one in each T & J Panel near the center with the hole turned up)
Flow rate through the system:	23 gpm
Elevation head:	10.0'
Pressure head:	3.0'
Friction head:	approx. 3.0'
20% contingency	3.2'
Total head:	19.2'
Pump requirements:	23 gpm at 19.2' of head; use Myers "ME 33" pump or equivalent with compatible electrical
Dosing volume:	165 gal. - 2.18 doses/day at design flow*
Depth of water pumped per dose:	calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gals.)
Pump run per dose:	approx. 7.0 min.
Check valve:	No
Siphon break hole:	No

* Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.

WARNING!!

Unless this plan or permit indicates that grading was considered, it **cannot** take place, either in or adjoining the septic system (up to 25'). If there are any questions call the designer or the local health department. Graded soils **cannot** be "replaced" and then be considered suitable for a septic system. *Ask first ! !*

Many county permits have some fine print stating for example: "*I understand that this permit can be suspended or revoked if any false information is supplied toward securing the permit/any unauthorized changes are made to the site/any unauthorized changes are made in the installation of the system*".

Regardless of what you may have done in the past, you must follow the conditions of the permit.

During Construction
Do not drive over system
or repair!

[illegible]

Vicinity Map

L-13	S 57°17'50" E	23.85
L-14	S 65°06'05" E	16.09
L-15	S 71°29'20" E	24.06
L-16	S 80°38'50" E	27.20
L-17	S 89°08'03" E	20.29
L-18	N 83°25'05" E	10.13
L-19	N 79°04'29" E	21.24
L-20	S 86°38'49" E	13.79
L-21	S 18°26'58" E	34.25
L-22	S 25°15'01" E	24.82
L-23	S 30°41'16" E	16.28
L-24	S 70°36'08" E	2.72
L-25	S 64°55'43" W	17.35

324.97

ower Co.
ndary
an)

Site Plan

5 taps 1¼" with 5 each 1¼" gate valves

turn-up & clean out on all five lines

L-17
L-18
L-19
L-20
Lake
L-21
L-2
L-22
L-1
L-23
L-24
L-25

Iron Pipe Found

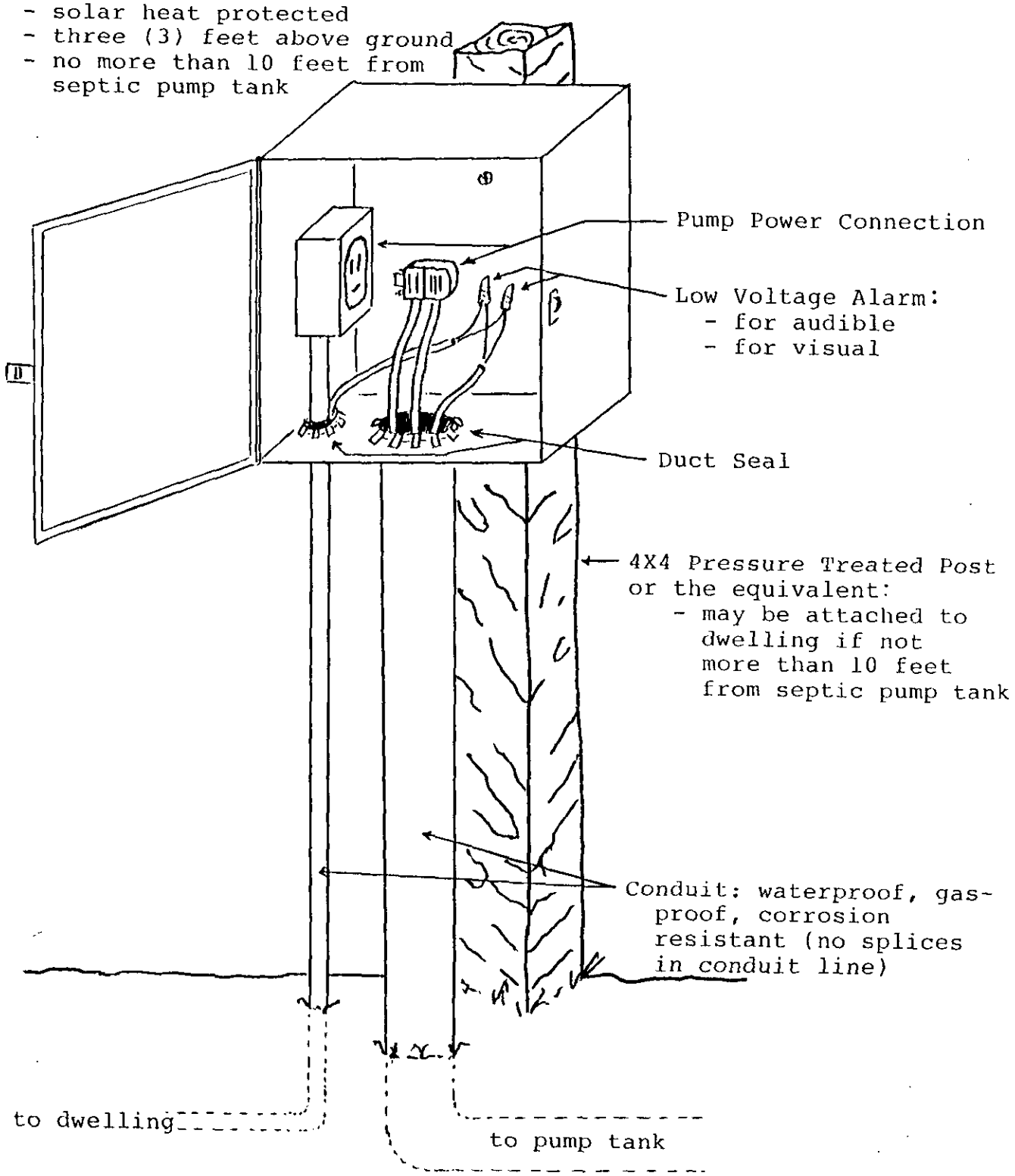
Iron Pipe Found

Public [illegible]

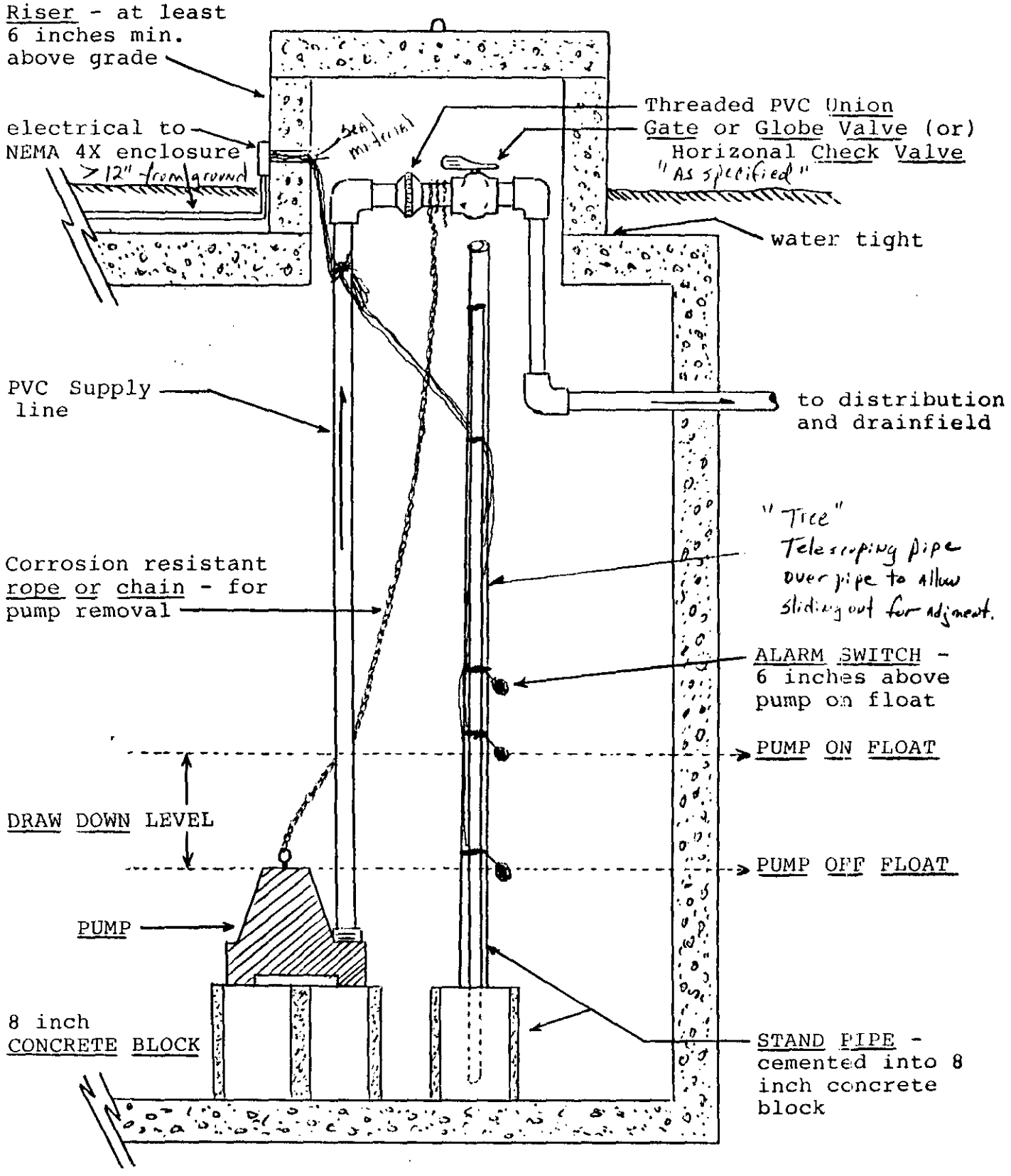
TH CAROL

NEMA 4X ENCLOSURE must be:

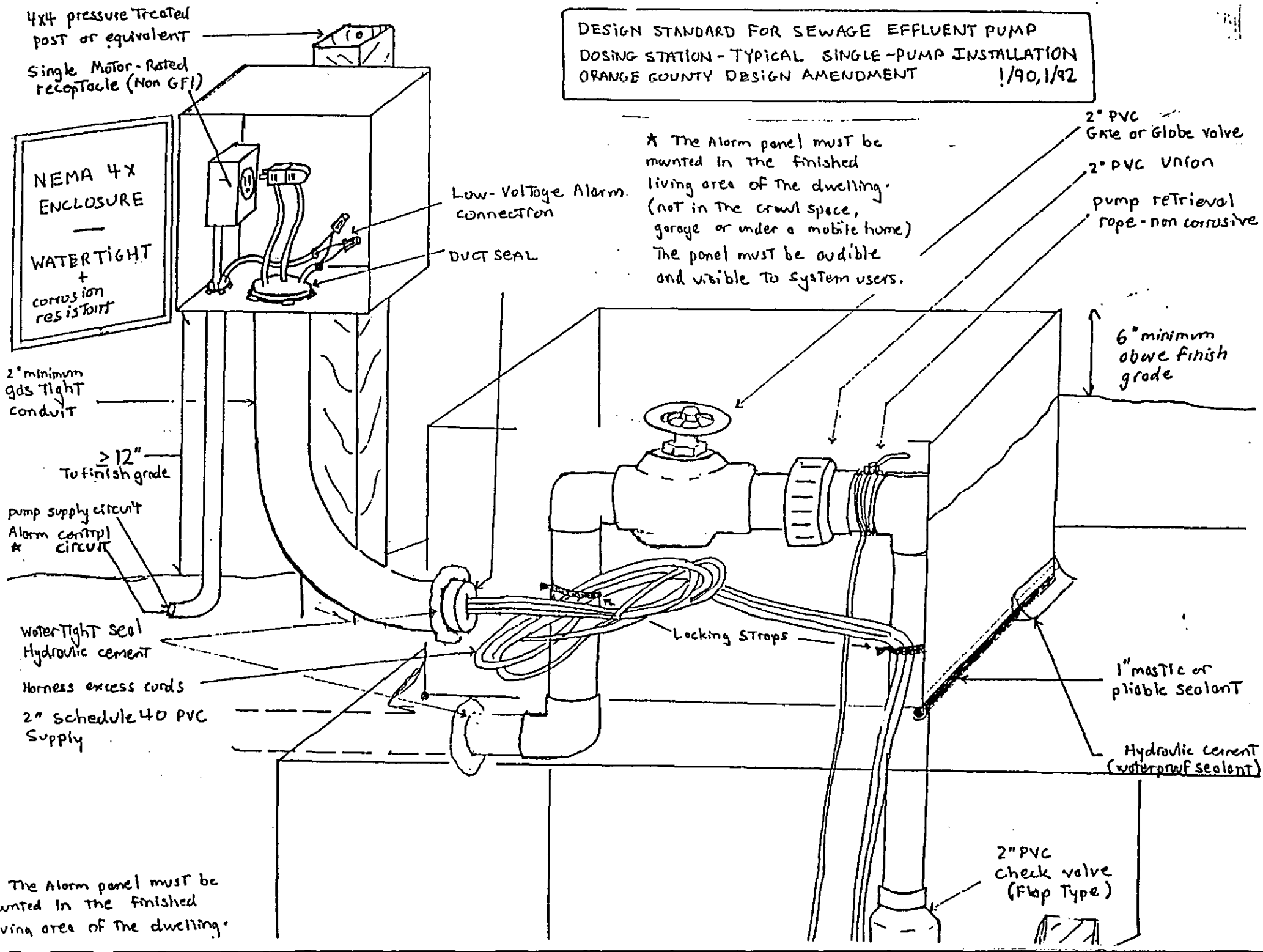
- water tight
- corrosion resistant
- solar heat protected
- three (3) feet above ground
- no more than 10 feet from septic pump tank



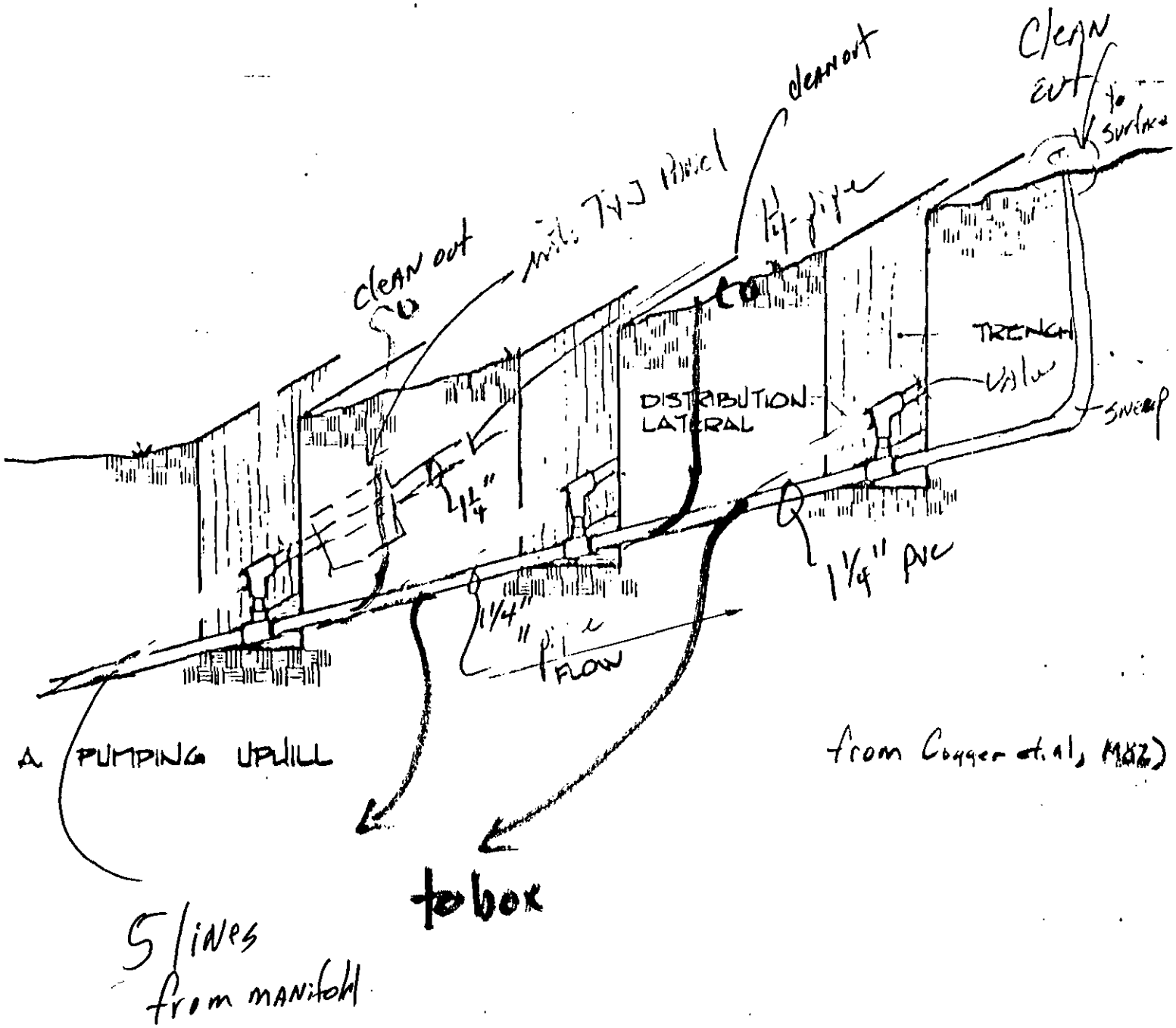
PUMP DIAGRAM



DESIGN STANDARD FOR SEWAGE EFFLUENT PUMP
DOSING STATION - TYPICAL SINGLE-PUMP INSTALLATION
ORANGE COUNTY DESIGN AMENDMENT 1/90, 1/92

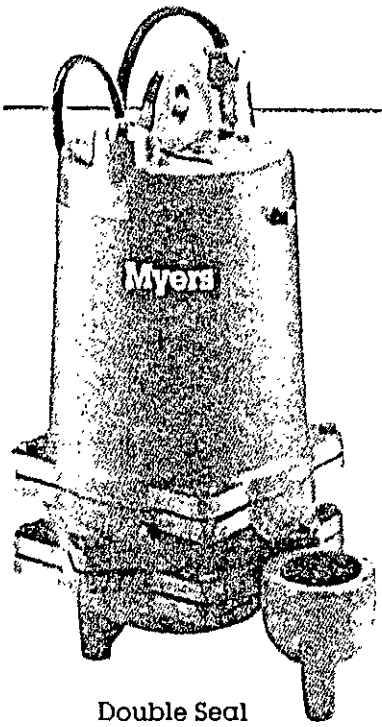


* The Alarm panel must be mounted in the finished living area of the dwelling.

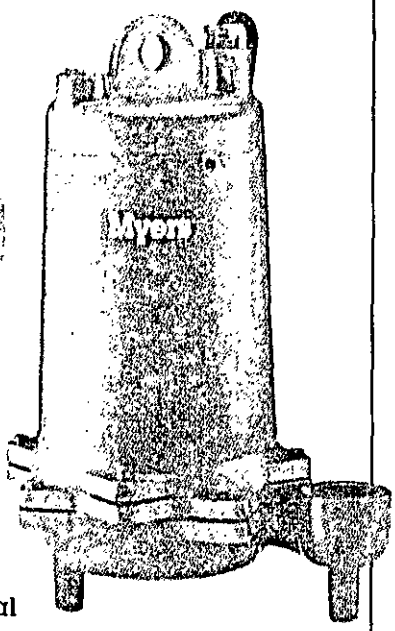

clean out
with TVJ Riser
clean out
1½" pipe
Clean out
to surface
TRENCH
DISTRIBUTION LATERAL
SWEEP
1¼"
1¼" pvc
1¼" pipe
FLOW
A PUMPING UPHILL
from Cogger et. al, MSU
to box
5 lines from manifold

ME SERIES

1/3 through 1-1/2 HP
Effluent Pumps



Double Seal



Single Seal

THE MYERS ME SERIES EFFLUENT PUMPS ARE DESIGNED SPECIFICALLY FOR TODAY'S EFFLUENT PRESSURE DISTRIBUTION MOUNDS, TRENCHES AND HIGH FLOW DRAINAGE APPLICATIONS. The ME Series effluent pumps with their efficient two vane, enclosed impellers, provide the ideal performance for optimum dosing. ME Series pumps are constructed of only corrosion resistant materials like cast iron, stainless steel and thermoplastics to assure that they will perform for years to come in the harsh effluent environment and drainage applications. For more information, call your Myers distributor today or the Myers Ashland, Ohio sales office at 419/289-1144.

ADVANTAGES BY DESIGN

IDEAL FOR USE IN MOUND AND TRENCH PRESSURE DISTRIBUTION SYSTEMS

- High efficiency, two vane, enclosed impeller provides ideal performance for most efficient dosing.
- Impeller passes full ¾ inch solids.
- Enclosed impeller design eliminates possibility of jamming or corrosion between impeller and volute.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE

- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- High torque, permanent split capacitor (PSC), single phase motors. No starting switches or relays to wear out.
- Optional seal leak probe warns of seal leak condition. (Dual seal motors only.) Helps prevent costly motor damage.
- Motors have on winding current and temperature sensitive overload. (Single phase only.)

THE ME SERIES EFFLUENT PUMPS ARE DESIGNED FOR YEARS OF MAINTENANCE FREE OPERATION

- Volute seal ring is replaceable. Restores pump to original performance if wear should occur.
- Motor is held in place by 4 screws. Easily removed if service is ever needed.

PRODUCT CAPABILITIES

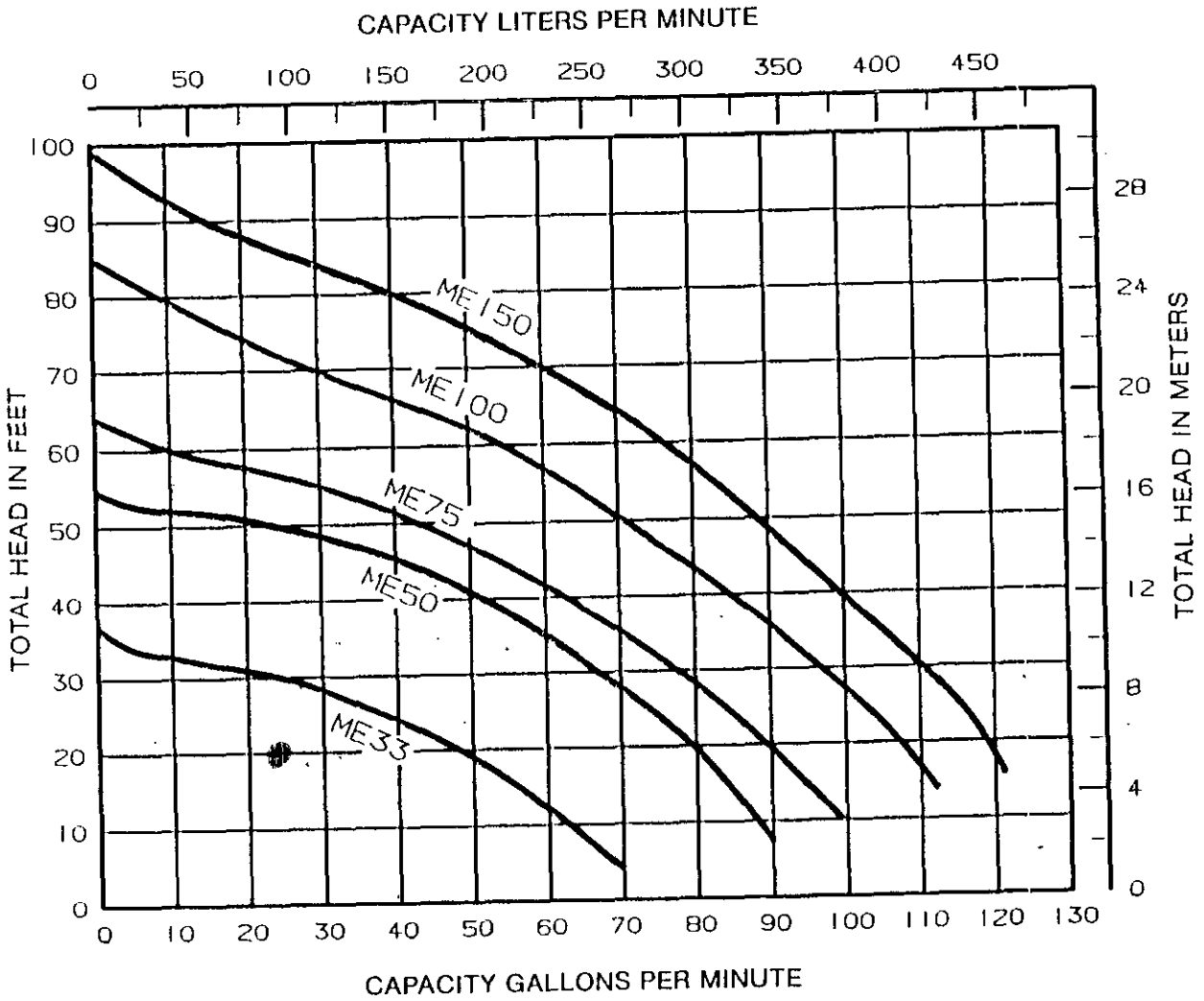
Capacities To	120 GPM	454 LPM
Heads To	98 ft.	29.8 m
Max. Spherical Solids	¾ in.	19 mm
Liquids Handling	domestic effluent & drain water	
Intermittent Liquid Temp.	up to 140° F	up to 60° C
Motor Electrical Data	1/3 & 1/2 HP, 115 volts, 1 ph 1/3 to 1-1/2 HP, 230 volts, 1 ph 208, 230, 460, 575 volts, 3 ph oil-filled, permanent split capacitor type, 1 ph, 3450 rpm, 60 Hz	
Motor Insulation	Class B (130°C)	
Third Party Approvals	Pending	
Acceptable pH Range	6-9	
Specific Gravity	.9-1.1	
Viscosity	28-35 SSU	
Discharge, NPT	2 in.	50.8 mm
Min. Sump Dia. Simplex Duplex	24 in. 36 in.	61 cm 91.4 cm

Construction Materials	
Motor Housing, Volute	cast iron, Class 30, ASTM A48-76
Enclosed Two Vane Impeller Standard Optional	engineered thermoplastic bronze
Impeller Wear Ring	304 SST
Volute Sealing Ring	Buna-N
Shaft	416 SST
Power Cord 1/3 & 1/2 HP, 1 Ph 3/4 - 1-1/2 HP, 1 Ph All 3 Ph	 20 ft. 16/3 SJOW/SJOW-A 20 ft. 14/3 SJOW/SJOW-A 20 ft. 14/4 SOW/SOW-A
Shaft Seals Standard Optional Opt. Lower	single carbon & ceramic tandem carbon & ceramic tungsten carbide
Fasteners	300 Series SST

WHERE INNOVATION MEETS TRADITION

Myers®

ME Series
1/3 through 1-1/2 HP
Effluent Pumps
Performance Curve



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419/289-1144 FAX 419/289-6658 Telex 98-7443

K3327 7/91

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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 # 2237B
PARCEL # 001-531-21

336-689*

The undersigned, IRVIN R. HAGER, owner of property located at 16816 Fidler Lane, (the "site") and described in an instrument recorded in Book _____ at Page _____, 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.

RECEIVED
JAN 12 1998

This instrument was prepared by: _____
Mail after recording to: IRVIN R. HAGER, P.O. Box 667, Huntersville, N.C. 28078, Ph: 875-1696

BK: 09385 PG: 0697/0699 #:0261 12.00
JUDITH A GIBSON REG OF DEEDS MECK NC
FILED FOR REGISTRATION 12/[illegible]/97 14:05

JAN-12-98 12:08 PM HAGER & ASSOCIATES 7048756487 P.02

(Corporate Name)

By: _____

_____ President

ATTEST:

_____ Secretary

(Corporate Seal)

_____ (SEAL)

_____ (SEAL)

_____ (SEAL)

_____ (SEAL)

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg

I, Ada L Rinehart, a Notary Public for said County and State, do hereby certify that Irvin R. Hager personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this 27 day of October, 1997.

Ada L Rinehart
Notary Public

My Commission Expires: 9-13-98

State of North Carolina, County of Mecklenburg

The foregoing certificate(s) of Ada L. Rinehart

Notary(ies) Public is/are certified to be correct.

This 4th day of December, 1997

JUDITH A. GIBSON, REGISTER OF DEEDS

By: Shirley Wright-Thompson Deputy Register of Deeds

RD99

- 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.

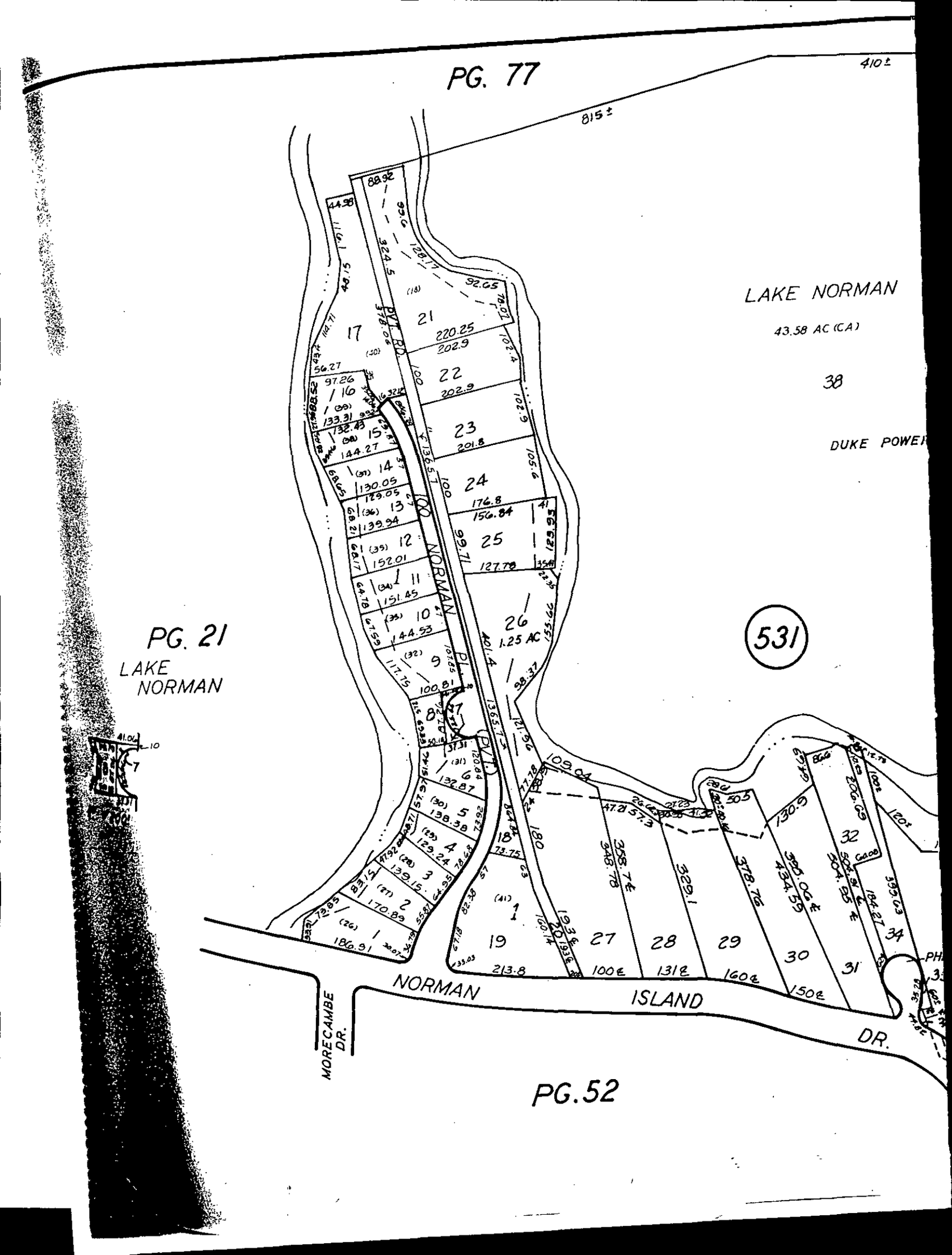
- At the time repairs to the sewage treatment and disposal system are to be made or a replacement system installed, the regulations in effect at that time will govern the repairs or installation of a replacement system.

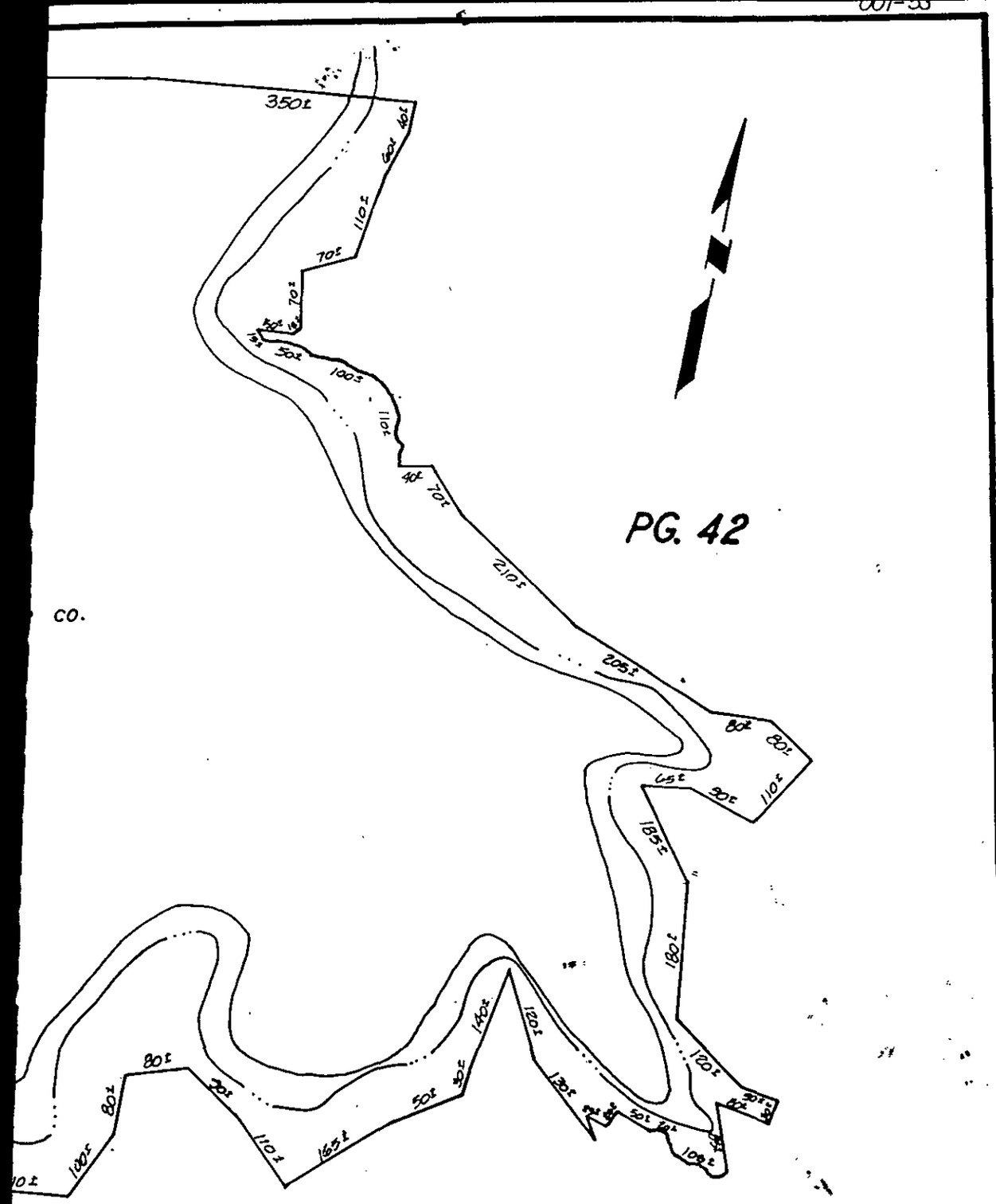
The undersigned further agrees for himself, his heirs and assigns that he shall indemnify and hold harmless the Department, its employees, and officials, as well as Mecklenburg County and its employees and officials, for any damages or other claims of any person or persons whatsoever arising out of the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


LAKE NORMAN
43.58 AC (CA)
38
DUKE POWE
531
815±
410±
NORMAN
DR.
17
21
22
23
24
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26
1.25 AC
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170.89
186.91
213.8
100±
131±
160±
150±
358.7±
348.78
329.1
378.76
350.06±
434.59
504.93±
PG. 21
LAKE
NORMAN
PG. 52
NORMAN ISLAND DR.
MORECAMBE DR.



TAX LINE MAP	BOOK 001	PAGE 53
MECKLENBURG COUNTY, NORTH CAROLINA		
REVISED 4-10-97	SCALE	1"=200'

MECKLENBURG COUNTY

Charlotte-Mecklenburg
Building Standards Department

CERTIFIED

Mr. Lonnie Hager
P.O. Box 455
Huntersville, NC 28078

SUBJECT: Application for Variance
Case Number 97-36
16816 and 16820 Fidler Lane

Dear Mr. Hager:

At its meeting on September 10, 1997, the Mecklenburg County Zoning Board of Adjustment **granted** a variance from the required exclusive fifteen (15) foot easement to allow the construction of a single family detached dwelling on a lot that does not abut a street for the property located at 16816 and 16820 Fidler Lane and is further identified as Tax Parcel Number 027-524-01.

The Board based its decision on the following Findings of Fact:

1. 16816 and 16820 Fidler is presently zoned R-3 and further identified as Tax Parcel Number 001-531-21.

2. Code Section states that Every lot must abut a street. No building, structure or use of land for any purpose may be placed on a lot which does not abut a street, except for agricultural purposes, and as provided for in Section 11.208 and the following exceptions: (1) A single family detached dwelling may be constructed on a lot that does not abut a street, provided that the lot is at least 2 acres in size, is provided with access to a public street by an easement at least 15 feet in width for the exclusive use of the detached dwelling, and the easement is maintained in a condition passable for emergency and service vehicles. All lots must be created in accordance with the subdivision ordinance, if they were not recorded prior to May 1, 1989.

3. Testimony indicated that Fidler Lane is a paved, perpetual easement, which is owned by the Town of Huntersville.

4. Testimony indicated that at one point in time, a pump station was located at the end of Fidler Lane, which was used by the Town of Huntersville.

5. Testimony indicated that the Town of Huntersville no longer uses Fidler Lane.

6. Testimony indicated that Fidler Lane is maintained by the Town of Huntersville.

7. Testimony indicated that the Town of Huntersville can discontinue maintaince of Fidler Lane at any time.

8. Testimony indicated that Applicant plans to subdivide lot and remove two of the three structures, thus reducing density of neighborhood.

9. Testimony indicated that Applicant will replace two of the structures with one new structure.

10. Testimony indicated that every lot on Fidler Lane is developed.

11. Testimony indicated that safety issues were addressed and that Fidler Lane is adequate.

12. Testimony indicated that Applicant will subdivide lot to approximately .75 acres each.

CONCLUSION OF LAW

1. The amount of the variance requested is small in the context of this particular situation.

2. The Applicant had no knowledge that the Applicant's actions would result in the violation of the Zoning Ordinance.

3. The Applicant might be in technical violation of the County's Zoning Ordinance, but the impact would be a result, too excessive and /or inequitable, and that was not intended by the impact of this particular provision of the Code.

All applicable permits must be obtained from the Building Standards Department which has been notified of this decision. The Mecklenburg County Zoning Ordinance, Code Section 5.111, provides that unless otherwise specified by the Board, any decision of the Board granting a variance shall automatically expire if a building permit or a certificate of occupancy pertaining to the need for the variance is not obtained within one (1) year from the date of the meeting of the Board at which the Board rendered its decision.

The Board's decision on this matter may be appealed to superior court within thirty (30) days from the date stated below, which is when the decision of the Board was filed in the Charlotte-Mecklenburg Building Standards Department.

Sincerely,

MECKLENBURG COUNTY
ZONING BOARD OF ADJUSTMENT

Cindy Chandler
Chairperson

cc: Bobbie Shields, Director
Robert Brandon, Zoning Administrator
Sandra Bisnar, Technical Advisor

DECISION FILED IN THE BUILDING STANDARDS DEPARTMENT:

October 9, 1997
Date

Robert Brandon, Zoning Administrator

1098-96-36:lpt

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION

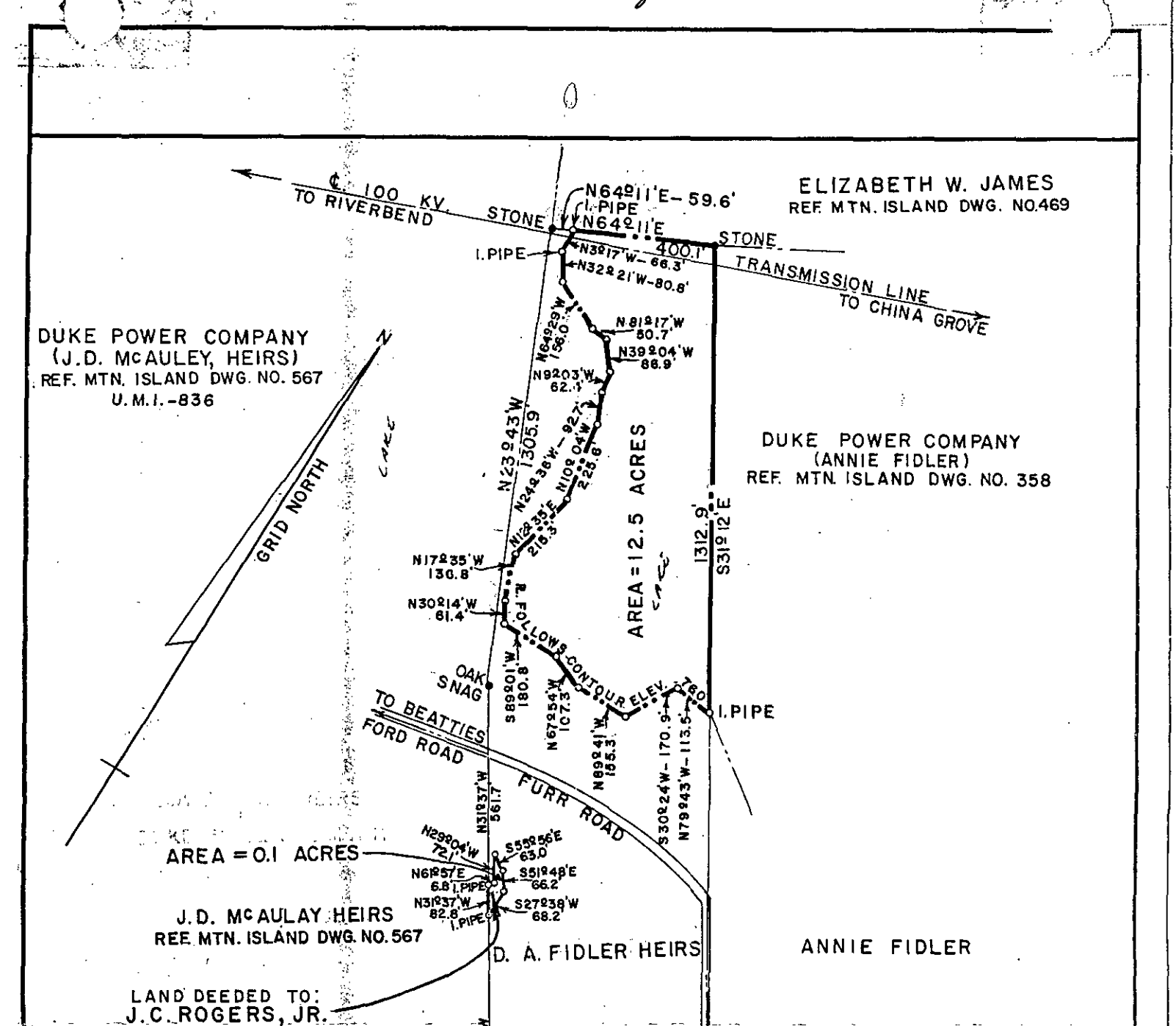
OWNER'S ACKNOWLEDGMENT OF MODIFIED/ALTERNATIVE REPLACEMENT SYSTEM REQUIREMENT

Site Address: 16816 Fidler Lane

File Number: 2237-B

Parcel Number: 001-531-21

89126 Reg



conventional sewage system and when needed, subsequently to repair or replace said system with a modified or alternative system as described in Rules .1956 "Modification to Septic Tank Systems," or .1957(a), (b), or (c) "Design Criteria for Design of Alternative Sewage Systems." The completed reclassification form must be approved by this office before it can be recorded.

In addition, you the property owner, also understand that the following conditions will apply:

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

- 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.

Environmental Health Specialist _____ Date _____

I have reviewed this document and understand its provisions and implications concerning the issuance of the Improvement Permit for the above-referenced site.

Property Owner Signature _____ Date 11/12/97

700 North Tryon Street, Suite 211, Charlotte, North Carolina 28202,
(704) 336-5102

2237B

HAGER & ASSOCIATES

INSURANCE AGENCY, INC.

FROM FAX NUMBER: 704-875-6487

PHONE: 704-875-1696

PLEASE CALL IF ADDITIONAL INFORMATION IS NEEDED.

FAX COVER SHEET

DATE TRANSMITTED:. 3/9/98

NUMBER OF PAGE INC. COVER: 6

FROM: Tru. Hager

TO THE ATTENTION OF: Judy Kiser

TO FAX NUMBER: 336-6894

COMMENTS:

Judy,

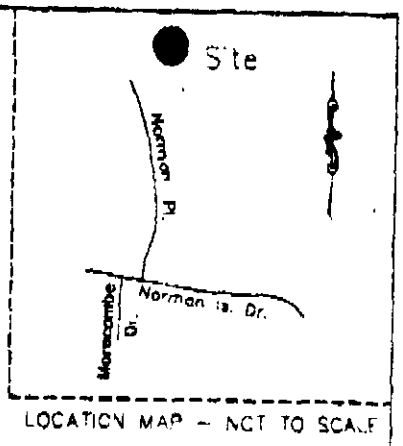
Fax you Fik concerning

16816 Fidlon Lane

Thanks.

Tru. Hager

LINE	BEARING	DISTANCE
L1	N 35°05'18" W	36.44'
L2	N 81°17'00" W	56.70'
L3	N 64°29'00" W	136.50'
L4	N 38°21'00" W	80.80'
L5	N 08°17'00" W	66.30'
L6	N 64°11'00" E	29.55'
L7	S 11°03'34" E	1.94'
L8	S 18°47'25" E	21.38'
L9	S 13°50'00" E	49.77'
L10	S 05°42'47" E	87.44'
L11	S 12°51'13" E	41.99'
L12	S 16°09'00" E	84.18'
L13	S 32°47'00" E	85.85'
L14	S 61°06'00" E	74.09'
L15	S 71°29'00" E	84.06'
L16	S 80°38'00" E	87.20'
L17	S 89°08'03" E	50.88'
L18	N 83°25'00" E	10.13'
L19	N 78°04'24" E	41.24'
L20	S 86°38'49" E	13.79'
L21	S 18°26'58" E	24.85'
L22	S 25°41'01" E	24.89'
L23	S 30°41'14" E	16.88'
L24	S 70°36'08" E	8.79'
L25	S 64°55'42" W	17.55'



LOCATION MAP - NOT TO SCALE

Tommy L. Broome
D.B.5513, Pg.885
D.B.5106, Pg.418

S 34°58'32" W 13.15' (Tie Line)
PK Nail(S) CL Road

N 64°11'00" E 59.75' (Base Bearing)

Pipe(F)

Stone(F)

Deed North D.B.2630, Pg.213

N 23°48'50" W

325.01'

20' Private Road

ORIGINAL D.P.CO. BOUNDARY

Lake Norman
Duke Power Company
(D. A. Fidler Heirs)
UMI - 912
D.B.2273, Pg.592

Area=0.2795 Ac.
12,174.3 sq.ft.

Rip-Rap
Wood Wall
Wood Wall & Rip-Rap

P/L FOLLOWS D.P.CO PROJECT BOUNDARY (LAKE NORMAN)

Lot 18
Lonnie Hager
And Wife
Smitta J. Hager
D.B.2630, Pg.213

NORTH CAROLINA REGISTERED

3573
Marshall
Virginia

SERVICE REQUEST/WORK ORDER

Log No.:_____ Section:_____ Hazard? [ ] Yes [ ] No

Date:_____ Parcel:_____ <60 Days? [ ] Yes [ ] No

REQUESTING PERSON:_____ Phone_____

Address_____ City_____ Zip_____

PROPERTY CONCERNED: Facility Name_____

Address 16816 Fidler Lane City_____ Zip_____

SERVICE REQUESTED: . . . . . .

ASSIGNED TO:_____ TAKEN BY:_____

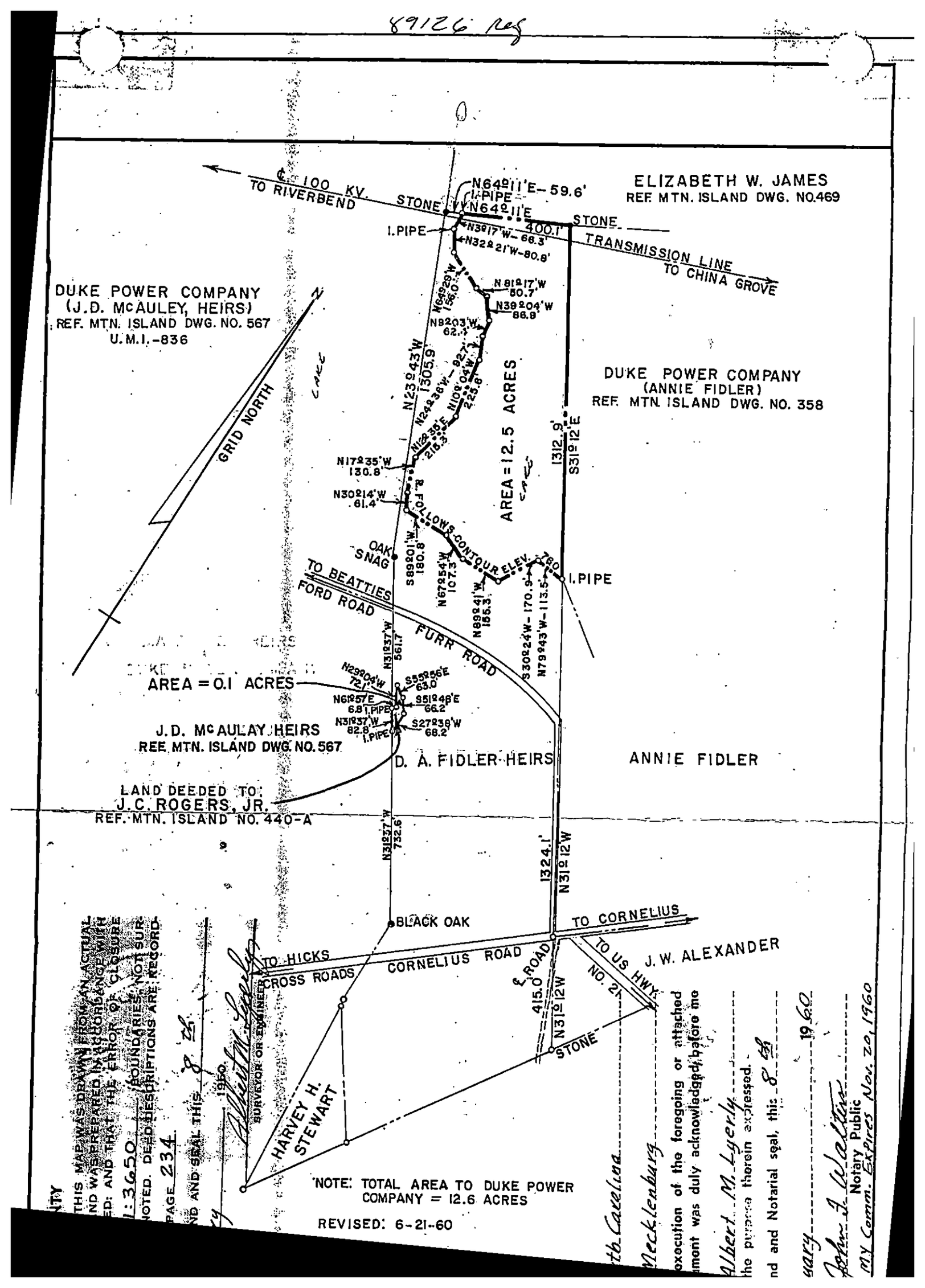
DATE	ACTIVITY REPORT
3/9	Site visit w/ Tony Jacobs Plan Designer, Lonnie Hager & Son, owners of lot Barry Thompson, Kelly Randall & Mark O'Donahue of E+H Section, H.O. All aspects of plan checked out according to plan. Mr. Hager advised he will fax a copy of his survey & deed for property added to lot.
	Spoke w/ Eddie Reynolds (he called me) advised what investigation revealed. He said this was unsatisfactory - he believes the survey we are using is not factual - he believes Mr Hager is trying to put a system in the high water zone instead of meeting 50' setback - he says he will appeal or oppose this project.
3/10/98	Spoke w/ Sylvia re: details - we visited "Zoning Dept" and have been referred to John Marshall x3573 regarding A Variance on this lot.
	Phone John Marshall requested he contact me to discuss

NOTIFICATION TO REQUESTING PERSON: ( ) Written ( ) Verbal ( ) Not Applicable

COMPLETED BY:_____/_____

REVIEWED BY:_____/_____

89126 Reg



THIS MAP WAS DRAWN FROM AN ACTUAL
ND WAS PREPARED IN ACCORDANCE WITH
ED: AND THAT THE ERROR OF CLOSURE
1:3650 BOUNDARIES, NOT SUR-
NOTED. DEED DESCRIPTIONS ARE RECORD-
PAGE 234

ND AND SEAL THIS 8 day
1960.

SURVEYOR OR ENGINEER

NTY

th Carolina
Mecklenburg
execution of the foregoing or attached
ment was duly acknowledged before me
Albert M. Lyerly
the purpose therein expressed.
nd and Notarial seal, this 8 day
1960
uary
John A. Wallace
Notary Public
My Comm. Expires Nov. 20, 1960

****** NC EXCISE TAX: 5.00 *****

BK: 08626 PG: 0393/0398 #:0367 18.00

JUDITH A GIBSON REG OF DEEDS MECK NC
FILED FOR REGISTRATION 06/21/96 15:53

Project No. 7327
Disposal Request No. 89122
F/E Request No. 89124

MECKLENBURG COUNTY

[redacted] 5.00

STATE OF NORTH CAROLINA

JUN21.96
Real Estate Excise Tax

$5.00
Excise Tax

Tax Lot No OUT OF : 001-271-14 Parcel Identifier No_____
Verified by_____ County on the_____ day of_____, 19____
by_____

Mail after recording to Grantees, P. O. Box 667, Huntersville, NC 28078

This instrument was prepared by Grantor

Brief description for the Index 0.2795 Acre Lemley Township

NORTH CAROLINA NONWARRANTY DEED

THIS DEED made this 28th day of May, 1996, by and between

Grantor	Grantee
DUKE POWER COMPANY P. O. Box 1007 Charlotte, NC 28201-1007	LONNIE HAGER and wife, SMITTA J. HAGER

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, **EXCEPT HOWEVER THIS DEED SHALL BE VOID AND OF NO EFFECT WHATSOEVER IF RECORDED WITHOUT THE BELOW REFERENCED PLAT BEING ATTACHED HERETO**, all that certain lot or parcel of land situated in Lemley Township, Mecklenburg County, North Carolina, and more particularly described as follows:

That certain tract of land containing 0.2795 acre, adjoining lands of Grantee, as shown on plat of survey entitled "Duke Power Company Cowans Ford Development Land Deeded to Lonnie Hager and wife, Smitta J. Hager", dated May 17, 1996, marked Request No. 89126, copy of which is attached hereto and made a part hereof. The property hereinabove described was acquired by Grantor by instrument recorded in Book 2273 at page 592 in the office of the Register of Deeds for Mecklenburg County.

5.00 BTW

IN WITNESS WHEREOF, the Grantor 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, the day and year first above written.

ATTEST:

DUKE POWER COMPANY

Assistant Secretary

By C. Jeffery Triplette
General Manager, Real Estate Division

DUKE POWER COMPANY SEAL CHARLOTTE, N.C.

STATE OF NORTH CAROLINA)
:
COUNTY OF MECKLENBURG)

I, Roy L. Parker, a Notary Public for the above State and County hereby certify that Carol D. Denton personally came before me this day and acknowledged that she is Assistant Secretary of DUKE POWER COMPANY, a corporation, and that by authority duly given and as the act of said corporation, the foregoing and annexed instrument was signed in its name by C. Jeffery Triplette, its General Manager, Real Estate Division sealed with its corporate seal and attested by her as its Assistant Secretary.

WITNESS my hand and official seal, this the 28 day of May, 1996.

ROY L. PARKER NOTARY PUBLIC MECKLENBURG COUNTY, NC

Roy L. Parker
Notary Public

My Commission Expires 6-21-97

ASSISTANT SECRETARY CERTIFICATE

I, Carol D. Denton, Assistant Secretary of Duke Power Company, do hereby certify that the following is a true and correct excerpt of a Resolution adopted February 27, 1995, by the Management Committee of the Board of Directors of Duke Power Company, and that said quoted Resolution has not been rescinded or amended:

> FURTHER RESOLVED, That effective October 17, 1994, the General Manager of the Real Estate Division, be and hereby is authorized to execute any contract, lease, deed or other instrument relating to real property without further action or approval by the Board of Directors of this Committee when deemed by said General Manager to be necessary or desirable in the operation of the Company's business, subject, however, to a monetary limit of $1,500,000.00 consideration or value in any single transaction, and to execute such documents in any such transaction which is approved by a resolution of this committee.
>
> FURTHER RESOLVED, That the Secretary or any Assistant Secretary be and is hereby authorized to attest and affix the corporate seal to any contracts, leases, deeds or other instrument executed under authority of this Resolution and may execute any certificate that may be required to certify the incumbency and authority of the officer or manager executing such documents.

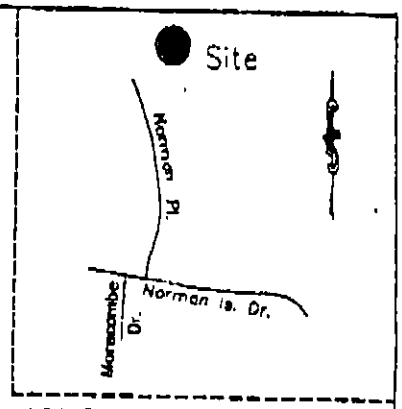
I further certify that on May 28, 1996, C. Jeffery Triplette was the General Manager, Real Estate Division, and by reason of holding said position and pursuant to the above quoted Management Committee's Resolution, had full authority to represent and act on behalf of Duke Power Company with respect to the execution of a deed between Duke Power Company and Lonnie Hager and wife, Smitta J. Hager, conveying 0.2795 acre, located in Lemley Township, Mecklenburg County, North Carolina, and to execute on behalf of Duke Power Company all documents and instruments relating in any way thereto.

WITNESS my hand and official seal of said Company this 28 day of May, 1996.

DUKE POWER COMPANY SEAL CHARLOTTE, N.C.

Carol D. Denton
Assistant Secretary

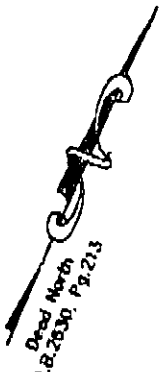
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L25	S 64°55'40" W	17.58'



LOCATION MAP - NOT TO SCALE

Tommy L. Broome
D.B.5513, Pg.885
D.B.5106, Pg.418

S 34°58'52" W 13.15' (Tie Line)
PK Nail(S) CL Road
N 64°11'00" E 59.75' (Base Bearing)
I.Pipe(F)
Stone(F)



Lake Norman
Duke Power Company
(D. A. Fidler Heirs)
UMI - 912
D.B.2273, Pg.592

N 23°48'50" W 325.01'
20' Private Road

Area=0.2795 Ac.
12,174.3 sq.ft.

ORIGINAL D.P.CO. BOUNDARY

Lot 18
Lonnie Hager
And Wife
Smitta J. Hager
D.B.2630, Pg.213

Wood Wall & Rip-Rap

P/L FOLLOWS D.P.CO. PROJECT BOUNDARY (LAKE NORMAN)



I.Pipe(F) N 64°55'40" E 202.82' I.Pipe(F)
PK Nail(S) CL Road
S 8°11'48" W 11.34' (Tie Line)

Desree W. Reynolds
And
Paul E. Reynolds, Sr.
D.B.6633, Pg.617

LEGEND
LINES SURVEYED
LINES NOT SURVEYED
ALL CORNERS ARE AS NOTED O
CALCULATED POINT C.C.P.

DUKE POWER PROJECT BOUNDARY BASED ON A WATER ELEVATION OF 757.0' ON MAY 17, 1996 AT 8:10 a.m.

NOTES: SURVEY MADE USING EXISTING PHYSICAL EVIDENCE FOUND AT TIME OF SURVEY.

SUBJECT PROPERTY MAY BE SUBJECT TO RECORDED OR UNRECORDED EASEMENTS, RIGHT-OF-WAYS, SETBACKS, AND/OR RESTRICTIVE COVENANTS NOT SHOWN

Map Prepared by:

GMS Surveying and Mapping, Inc.
Gerald M. Sosebee, PLS Mobile: (704)813-1688

3573
Marshall
Virginia