

10721 MT HOLLY-HUNTERSVILLE RD

1/3/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

CERTIFICATE OF COMPLETION/OPERATION PERMIT

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

FILE: 3501-B DATE: 5/6/97

TC: 017-032-04 ~~ALL~~ ~~CRT~~

SERIAL Nº 17140

Name of Owner JAMES BLYTHE Juris.: _____

Address of Property 10901 MT HOLLY - HUNTERSVILLE RD

Inspection Data:

Tank Material PCC

Total Length of Drainfield 400

Number of Lines 4 @ 100'

Cover Depth 12 - 24"

Water Supply Source well

Distance to Water Source 100' plus

Excavation Inspected 5-15-97

Tank(s) Inspected 5-15-97

Wash Line Inspected —

High Water Alarm Inspected 5-28-97

PLOT

Design 1997 1500 ST 1000 DT P1 INV TYPE III CTR# WILLIE CHRISTENBURY

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

- ☑ installed or constructed
- ☑ in accordance with the permit issued
- ☐ altered or repaired
- ☐ 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 IIIa "infiltrator Brand used"
4 bedRooms
(4) 3'w x 100'L x

Larry B. Thompson Jr. R.S.
Environmental Health Specialist

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

CHARLOTTE-MECKLENBURG BUILDING STANDARDS
ONE/TWO FAMILY PERMIT

ADDR ADDR: 11001 MT HOLLY-HUNTERSVILL RD MECK JOB: 6001 PERMIT: B0488044
PARCEL: 01703204PO DATE: 07/25/96 JOB: NEW RESIDENCE MASTER: B0488044
PROJECT: PHASE: SEC: PROJECT:
OWNER: JAMES/LOUISE BLYTHE ADDR: 10304 SAM FURR RD
CITY/ST: HUNTERSVILLE NC 28078 PHONE: 704-892-8934

SITE LOT/BLK: / .ZONING: R-3 JURIS: MECK MAP#: 37 HOUSING: NO
ST R/W: 0060 PUBLIC: NO CENSUS: 6202 O&D ZONE: 420 FIRE DIST: NO
SPECIAL: FLD PLN: NO FLD ELEV:
#UNITS: 1 WATER: INDIVIDUAL SEWER: INDIVIDUAL
LAND AREA: 25.757 LOT: FRT ST:
MIN SETBACKS FRONT: 30 LEFT: 6 RIGHT: 6 REAR: 45 REQ PARKING:

PROJ USDC: 101 OCC TYPE: R FEE CODE: CONSTR TYPE: 6 #H/C UNITS:
HTD AREA: 4275 UNHTD AREA: 1646 DECK: 324 #STORIES: 1.0 BASEMENT: YES
#ROOMS: 8 #BEDROOMS: 4 #BATHS: 3.5 SPKLR SYS: NO #UNITS: 1
ATT CARPORT: NO ATT GARAGE: YES MASONRY FR: YES PROJ COST:
MBL HOME YR/MAKE: SERIAL#:

ELEC TOTAL AMPS: 200 #CIRCUITS: 40 UTILITY CO: CRESCENT ELECT
#CONNECTIONS 120 V: 100 > 120 V: 6 TYPE OF WORK: NEW SERVICE

MECH #GAS CONNECTIONS: 2 #APPLIANCES: UTILITY CO: PIEDMONT NATL GAS
TYPE OF WORK: HEATING WITH A/C
HEATING/COOLING: CENTRAL A-C GAS/OIL/FURN CHIMNEY

PLBG #FIXTURES: 17 #APPLIANCES: 4 WORK: NEW WATER SERVICE NEW SEWER SERVICE

CONT BLDG: HOWEY CO INC THE LIC: B 0000003883 U PERMIT: B0488044
ADDR: 6805-C FAIRVIEW RD CITY/ST: CHARLOTTE NC 28210
PHONE#: 704-365-6805
ELEC: OSBORNE ELEC OF HUNTERSVIL LIC: E 0000006939 L PERMIT: E0488045
ADDR: 10028 GREENPOND LN CITY/ST: HUNTERSVILLE NC 28078
PHONE#: 704-892-7514
MECH: MILLER REFRIG & A/C CO PERMIT: M0488046
ADDR: 1400 INDUSTRIAL DR CITY/ST: MATTHEWS NC 28105
LIC: M 0000007077 1 H3 M 0000950810 3 A M 0000001306 4 R
PHONE#: 704-847-6805
PLBG: PRICE BROTHERS INC LIC: P 0000008230 1 PERMIT: P0488047
ADDR: P O BOX 7585 CITY/ST: CHARLOTTE NC 28241
PHONE#: 704-588-6110
ARCH/ENG: LIC: PHONE#:
ADDR: CITY/ST:

COST BLDG: 248210 ELEC: 8380 MECH: 7790 PLBG: 8420 TOTAL: 272800
PLANS: NO INSP READY: NO
REMARKS: SPRAY IRRIGATION SEPTIC SYSTEM APPL BY STATE/LETTER ENCLOSED

PERMIT MAILED: NO CHECK NUMBER: HOMEOWNR RC FEE: 5.00
VALIDATION DATE: 07/25/96 BY: VD CHARGE ACCT#: B36300 DOUBLE FEE: NO
FIRE DMG FEE: FSTRK FEE: ADJUSTMENT: TOTAL FEE: 1414.85

THIS PERMIT WILL EXPIRE IF WORK EITHER HAS NOT STARTED WITHIN 6 MONTHS OR IS DISCONTINUED FOR A PERIOD OF 12 MONTHS. NO REFUNDS WILL BE GIVEN AFTER EXPIRATION.

P O BOX 31097 700 N TRYON ST CHARLOTTE, NC 28231-1097 704-336-3831

INSTALLATION, CONSTRUCTION, ALTERATION, AND/OR REPAIR APPROVAL

copy #150.00 5/29/97 ew

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

FILE: 3581 B DATE: 5-6-97

017-032-04
TC: 017-032-05 ☐ L

SERIAL Nº 17254

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 5-11-95. All work shall be completed on or before 6-6-97, 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
prepared by
Tony C. Jacob & Assoc.

PLOT OF SYSTEM

Liquid Capacity of Septic Tank 1500 gallons

Liquid Capacity of Dosing Tank 1500 gallons

Tank Construction PCC

Trench Depth ≤ 36"

Absorption and/or Nitrification Lines:

Trench Width 3 feet

Trench Walls Scored and Porous Yes

Total Line Length 400 feet

Number of Lines 4

Depth of Stone N/A inches (Innovative)

Distance from House 10 feet

Distance from Property Line 10 feet

Distance from Well 100 feet

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

NAME OF OWNER James F. Blythe

LOCATION OF PROPERTY 11001 10901 Mt. Holly-Huntersville Rd

Comments: Type IIIg 4 bedrooms
14) 3'w x 100'L x ≤ 36"

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

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

3823

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Environmental Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
A. Preston Howard, Jr., P.E., Director

DEHNR

December 19, 1995

Mr. James F. Blythe
10304 Sam Furr Road
Huntersville, North Carolina 28078

Subject: Permit No. WQ0011521
Mr. James F. Blythe Residence
Single Family Wastewater
Spray Irrigation Facility
Mecklenburg County
~~13901~~ 11001 Mt. Holly-Huntersville Rd

Dear Mr. Blythe:

In accordance with your application received September 11, 1995, we are forwarding herewith Permit No. WQ0011521 dated December 19, 1995, to Mr. James F. Blythe, for the construction and operation of the subject single family wastewater treatment and spray irrigation facilities.

This permit shall be effective from the date of issuance until November 30, 2000, and shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the monitoring requirements in this permit. Failure to establish an adequate system for collecting and maintaining the required operational information will result in future compliance problems.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within thirty (30) days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Drawer 27447, Raleigh, NC 27611-7447. Unless such demands are made this permit shall be final and binding.

One set of approved plans and specifications is being forwarded to you. If you need additional information concerning this matter, please contact Mr. John Seymour at (919) 733-5083 extension 546.

Sincerely,

Carolyn W. McCaskill for

A. Preston Howard, Jr., P.E.

cc: Mecklenburg County Health Department
Mooresville Regional Office, Water Quality Section
Training and Certification Unit
Facilities Assessment Unit
Neil B. Kapadia

P.O. Box 29535, Raleigh, North Carolina 27626-0535
Telephone 919-733-5083 FAX 919-733-9919
An Equal Opportunity Affirmative Action Employer
50% recycled/ 10% post-consumer paper

NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

RALEIGH

SINGLE FAMILY SPRAY IRRIGATION PERMIT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO

Mr. James F. Blythe
Mecklenburg County

FOR THE

construction and operation of a 480 GPD spray irrigation wastewater treatment and disposal system consisting of a 1,200 gallon baffled septic tank, a 500 gallon sand filter pump tank with 5 gpm pump (piped for sand filter recirculating), dual tank recirculating sand filters piped in parallel and totaling 105 ft^2, a ratio splitter box, a tablet chlorinator and 50 gallon (30 minute) chlorine contact tank arrangement, a 2,500 gallon storage/pump tank with a minimum 32 gpm (148 TDH) pump, and a 30,492 ft^2 spray irrigation area to serve the James F. Blythe Residence, with no discharge of wastes to the surface waters, pursuant to the application received September 11, 1995, and in conformity with the project plan, specifications, and other supporting data subsequently filed and approved by the Department of Environment, Health and Natural Resources and considered a part of this permit.

This permit shall be effective from the date of issuance until November 30, 2000, and shall be subject to the following specified conditions and limitations:

I. PERFORMANCE STANDARDS

1. Upon completion of construction and prior to operation of this permitted facility, a certification must be received from a professional engineer certifying that the permitted facility has been installed in accordance with this permit, the approved plans and specifications, and other supporting materials. Mail the Certification to the Water Quality Permits and Engineering Unit, P.O. Box 29535, Raleigh, NC 27626-0535.

2. The Mooresville Regional Office, telephone number 704/ 663-1699 shall be notified at least forty-eight (48) hours in advance of operation of the installed facilities so that an in-place inspection can be made. Such notification to the regional supervisor shall be made during the normal office hours from 8:00 a.m. until 5:00 p.m. on Monday through Friday, excluding State Holidays.

3. The spray irrigation facilities shall be effectively maintained and operated at all times so that there is no discharge to the surface waters, nor any contamination of ground waters which will render them unsatisfactory for normal use. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions or failure of the irrigation area to adequately assimilate the wastewater, the Permittee shall take immediate corrective actions including those actions that may be required by the Division of Environmental Management, such as the construction of additional or replacement wastewater treatment and disposal facilities.

4. The issuance of this permit shall not relieve the Permittee of the responsibility for damages to surface or groundwaters resulting from the operation of this facility.

5. The sand media of the recirculating sand filters must comply with the Division's sand specifications. The engineer's certification will serve as evidence that these specifications have been met.

6. A leakage test shall be performed on the septic tank and dosing tank to insure that any exfiltration occurs at a rate which does not exceed twenty (20) gallons per twenty-four (24) hours per 1,000 gallons of tank capacity. The engineer's certification will serve as proof of compliance with this condition.

7. If excavation into bedrock is required for the installation of the septic tank or sand filter, the pit shall be lined with a 10 mil synthetic liner.

8. A sanitary tee shall be installed on the effluent pipe of the septic tank. The engineer's certification will serve as evidence that these specifications have been met.

9. The residuals generated from these treatment facilities must be disposed in accordance with General Statute 143-215.1 and in a manner approved by the North Carolina Division of Environmental Management.

10. Diversion or bypassing of the untreated wastewater from the treatment facilities is prohibited.

11. The following buffers shall be maintained:

    a) 400 feet between wetted area and any residence or places of public assembly under separate ownership,
    b) 150 feet between wetted area and property lines,
    c) 100 feet between wetted area and wells,
    d) 100 feet between wetted area and drainageways or surface water bodies,
    e) 50 feet between wetted area and public right of ways,
    f) 100 feet between treatment/storage units and any wells, and
    g) 50 feet between treatment units and property lines.

    Some of the buffers specified above may not have been included in previous permits for this waste treatment and disposal system. These buffers are not intended to prohibit or prevent modifications, which are required by the Division, to improve performance of the existing treatment facility. These buffers do, however, apply to modifications of the treatment and disposal facilities which are for the purpose of increasing the flow that is tributary to the facility. These buffers do apply to any expansion or modification of the spray irrigation areas and apply in instances in which the sale of property would cause any of the buffers now complied with, for the treatment and disposal facilities, to be violated. The applicant is advised that any modifications to the existing facilities will require a permit modification.

12. Construction within the subject spray field shall be prohibited during and immediately after rainfall events to minimize the destruction of soil structure. Heavy equipment shall not be used as it will cause damage the soil structure of the spray field.

II. OPERATION AND MAINTENANCE REQUIREMENTS

1. The facilities shall be properly maintained and operated at all times.

2. Upon classification of the facility by the Certification Commission, the Permittee shall employ a certified wastewater treatment plant operator to be in responsible charge (ORC) of the wastewater treatment facilities. The operator must hold a certificate of the type and grade at least equivalent to or greater than the classification assigned to the wastewater treatment facilities by the Certification Commission. The Permittee must also employ a certified back-up operator of the appropriate type and grade to comply with the conditions of Title 15A, Chapter 8A, .0202. The ORC of the facility must visit each Class I facility at least weekly and each Class II, III, and IV facility at least daily, excluding weekends and holidays. and must properly manage and document daily operation and maintenance of the facility and must comply with all other conditions of Title 15A, Chapter 8A, .0202. Once the facility is classified, the Permittee must submit a letter to the Certification Commission which designates the operator in responsible charge within thirty days after the wastewater treatment facilities are 50% complete.

3. A suitable vegetative cover over the spray field shall be maintained.

4. Irrigation shall not be performed during inclement weather or when the ground is in a condition that will cause runoff.

5. Adequate measures shall be taken to prevent wastewater runoff from the spray field.

6. The application rate shall not exceed a cumulative loading of 10.4 inches over any twelve (12) month period at an instantaneous application rate not to exceed 0.06 inches per hour.

7. The facilities shall be effectively maintained and operated as a non-discharge system to prevent the discharge of any wastewater resulting from the operation of this facility.

8. No type of wastewater other than that from the James F. Blythe Residence shall be sprayed onto the irrigation area.

9. In the event that the sprinkler heads fail to achieve the design diameter of 110 feet due to obstructions, the obstructions shall be removed or the sprinkler heads shall be raised and supported to such height that the design diameter is achieved.

10. No traffic or equipment shall be allowed on the disposal area except while installation occurs or while normal maintenance is being performed.

11. The spray irrigation field shall be fenced with at least a two strand wire fence.

12. The Permittee is responsible for the operation and maintenance of the entire treatment and disposal system including, but not limited to, the following items:

    a. The septic tank shall be checked annually and pumped out as needed.

    b. The tablet chlorinator shall be checked every week. Tablets shall be added so as to provide proper chlorination.

    c. The storage, pump, and alarm systems shall be inspected weekly. The scum layer shall be removed at the same interval as the septic tank is cleaned out.

    d. The spray system shall be inspected weekly to make certain of the sprayers proper operation, that the vegetative growth allows a proper spray pattern, that the soil is assimilating the disposed treated wastewater with no surface runoff, and that no objectionable odors are being generated.

III. MONITORING AND REPORTING REQUIREMENTS

1. Any monitoring deemed necessary by the Division of Environmental Management to insure surface and ground water protection will be established and an acceptable sampling reporting schedule shall be followed.

2. The Permittee shall maintain records of all maintenance performed on the system and irrigation area, as required in Condition II.11 for a minimum of five years. This information shall be provided to the Division of Environmental Management upon request.

3. **Noncompliance Notification:**

   The Permittee shall report by telephone to the Mooresville Regional Office, telephone number 704/ 663-1699 as soon as possible, but in no case more than 24 hours or on the next working day following the occurrence or first knowledge of the occurrence of any of the following:

   a. Any process unit failure, due to known or unknown reasons, that renders the facility incapable of adequate wastewater treatment, such as mechanical or electrical failures of pumps, spray heads, etc.; or

   b. Any failure of a pumping station or treatment facility resulting in a by-pass directly to receiving waters without treatment of all or any portion of the influent to such station or facility.

   Persons reporting such occurrences by telephone shall also file a written report in letter form within 15 days following first knowledge of the occurrence. This report must outline the actions taken or proposed to be taken to ensure that the problem does not recur.

IV. INSPECTIONS

1. Adequate inspection, maintenance, and cleaning shall be provided by the Permittee to insure proper operation of the subject facilities.

2. Any duly authorized officer, employee, or representative of the Division of Environmental Management may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the disposal site or facility at any reasonable time for the purpose of determining compliance with this permit, may inspect or copy any records that must be maintained under the terms and conditions of this permit, and may obtain samples of groundwater, surface water, or leachate.

V. GENERAL CONDITIONS

1. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans and specifications, and other supporting data.

2. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting data.

3. This permit is not transferable. In the event there is a desire for the facilities to change ownership, or there is a name change of the Permittee, a formal permit request must be submitted to the Division of Environmental Management accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.

4. Upon the availability of a municipal or regional sewerage collection system, the subject wastewater treatment facilities shall be abandoned and all wastewater discharged into the municipal or regional sewerage system.

5. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division of Environmental Management in accordance with North Carolina General Statute 143-215.6(a) to 143-215.6(c).

6. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state, and federal) which have jurisdiction.

7. This permit may be revoked if the Permittee fails to abide by the conditions of the "Operation and Maintenance Agreement" previously signed by the Permittee.

8. A set of approved plans and specifications for the subject project must be retained by the Permittee for the life of the project.

9. The Permittee, at least six (6) months prior to the expiration of this permit, shall request its extension. Upon receipt of the request, the Commission will review the adequacy of the facilities described therein, and if warranted, will extend the Permit for such period of time and under such conditions and limitations as it may deem appropriate.

Permit issued this the 19th day of December, 1995

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Cavalyn O. McCaskill for

A. Preston Howard, Jr., P.E., Director
Division of Environmental Management
By Authority of the Environmental Management Commission

Permit Number WQ0011521

ENGINEER'S CERTIFICATION

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the

project, _____, _____ for the
Project Name *Location*

Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of this permit, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____

Date _____

OPERATION AND MAINTENANCE AGREEMENT FOR THE DIVISION OF ENVIRONMENTAL MANAGEMENT

Mr. Frank J. Blythe
10901 Mt. Holly/ Huntersville Rd.
Huntersville, North Carolina 28078

Single Family Residence Wastewater Treatment System
Final Disposal by Spray Irrigation
Permit No. WQ0011521
Mecklenburg County

I agree to operate and maintain the wastewater treatment system as follows:

1. The Permittee is responsible for the operation and maintenance of the entire treatment and disposal system including, but not limited to, the following items:

   a. The septic tank shall be checked every six (6) months and pumped out as required.

   b. The tablet chlorinator shall be checked every week until the actual usage rate is established and thence on a monthly basis. Tablets shall be added so as to provide proper chlorination.

   c. The storage system, pump system, and alarm system shall be inspected monthly. The scum layer shall be removed at the same interval as the septic tank is cleaned out.

   d. The spray system shall be inspected monthly to make certain of the sprayers proper operation, that the vegetative growth allows proper spray patterns, that the soil is absorbing the disposed treated wastewater with no surface runoff, and that no objectionable odors are being generated.

2. Failure of the Permittee to properly operate this system is subject to a penalty up to $10,000 per day.

3. Failure to meet permit conditions or violation of the State's surface or groundwater regulations will require cessation of occupancy of the residence.

I understand that failure to comply with these conditions along with the permit conditions may result in voiding the permit.

Signature: J Blythe Date: 12/8/95
Frank J. Blythe

Notary Seal

Notary Signature: Roberta L. Fidell Date: 12-8-95
My Commission Expires 9-13-2000

Mecklenburg County
Health Department

May 19, 1997

11001

The Howey Co., Inc
Attn: Ralph F. Howey
6805-C Fairview Road
Charlotte, NC 28210

Re: ~~10901~~ Mt. Holly-Huntersville Road
File: 3581B
Parcel: 017-032-04

Dear Mr. Howey:

At your request an inspection was made at the above referenced property to facilitate the issuance of an Operation Permit for the Sewage Treatment and Disposal system. During the inspection it was found that the following items did not meet the regulations set forth in the "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900;.1952 Septic Tank, Dosing, Dosing Tank and Lift Station Design." Our comments follow:

1) (6) Pump and control circuits shall be provided with manual circuit disconnects within a watertight, corrosion-resistant, outside enclosure (NEMA 4X or equivalent) adjacent to the pump tank, securely mounted at least 12 inches above the finished grade. The pump(s) shall be manually operable without requiring the use of special tools or entrance into the tank for testing purposes. Conductors shall be conveyed to the disconnect enclosure through water proof, gasproof, and corrosion-resistant conduits, with no splices or junction boxes provided inside the tank. Wire grips, duct seal, or other suitable material shall be used to seal around wire and wire conduit openings inside the pump tank and disconnect enclosure.

2) (9) The pump tank shall have a properly functioning high-water alarm. The alarm circuit shall be supplied ahead of any pump overload and short circuit protective devices. The alarm shall be audible and visible by system users and weatherproof if installed outdoors in an enclosure (NEMA 4X or equivalent).

The above mentioned items must be installed and inspected prior to the Operation Permit being issued. The Operation Permit is <u>required</u> for the Certificate of Occupancy and the permanent electric hook-ups. Please schedule the inspections at least five (5) working days in advance to ensure no delays in the Operation Permit issuance.

Please call me at 336-5568 to discuss any question you may have concerning this matter.

Sincerely,

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

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

June 21, 1995

James F. Blythe
10324 Sam Furr Road
Huntersville, NC 28078

Dear Mr. Blythe:

Re: ~~10901~~ 11001 Mt. Holly-Huntersville Road
File: 3581B
Parcel: 017-032-04,05

Receipt of the plans and specifications for a conventional system of sewage treatment and disposal for the above property is hereby acknowledged. Upon receipt of the information, a review was made of the material on file and site evaluation were conducted. The plan was then reviewed in conjunction with provisions of 15A NCAC 18A .1900, "Laws and Rules for Sewage Treatment and Disposal Systems." Our comments are listed below (see enclosed soil report):

The available area on the site is classified as **UNSUITABLE** according to the following rules (see enclosed copy of rules):

.1941 SOIL CHARACTERISTICS (MORPHOLOGY)-
Expansive Clay Mineralogy

.1942 SOIL WETNESS CONDITIONS-
Soil wetness conditions at 6 to 12 inches below the naturally occurring soil surface.

.1943 SOIL DEPTH - Soil depths of 6 to 18 inches to saprolite.

For these reasons, the plans as submitted are disapproved.

In addition, please be aware that according to Rule .1948(d) "A site classified as UNSUITABLE may be used for a ground absorption sewage treatment and disposal system specifically identified in Rules .1955, .1956, or .1957 of the 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 groundwater 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."

You also have the right to an informal review with this Department. If no resolution can be reached, you have the right to appeal the decision of this Department under G.S. 130A-24 and G.S. 150B-23(a) through the State Office of Administrative Hearings (OAH).

If you have any questions concerning this matter, please contact me at 336-5573.

Sincerely,

Lisa B. Mialik

Lisa B. Mialik, R.S.
Individual Water and Wastewater Systems

cc: Mr. William Marlin, Soil Scientist
Ralph F. Howey, The Howey Company, Inc.

Mecklenburg County
Health Department

TELECOPIER TRANSMITTAL COVER SHEET

NOTICE

THE INFORMATION CONTAINED IN THIS TELECOPY MAY BE PRIVILEGED AND/OR CONFIDENTIAL AND IS INTENDED ONLY FOR THE USE OF THE PERSON TO WHOM IT IS ADDRESSED. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT (OR SUCH RECIPIENT'S EMPLOYEE OR AGENT), YOU ARE HEREBY NOTIFIED NOT TO READ, DISTRIBUTE OR COPY THE MATERIALS ATTACHED HERETO WITHOUT THE PRIOR WRITTEN CONSENT OF THE SENDER. IF YOU HAVE RECEIVED THIS TELECOPY IN ERROR, PLEASE NOTIFY THE SENDER BY TELEPHONE CALL AND RETURN THE ORIGINAL TELECOPY TO US BY MAIL AND WE WILL REIMBURSE YOU FOR THE REQUIRED POSTAGE. THANK YOU.

TO: Audrey TELECOPIER # 365-6818

FROM: IWWS DATE 6/19/95

NUMBER OF PAGES TRANSMITTED: _____ (including cover sheet)

COMMENTS: per request

If you do not receive all pages, please call us as soon as possible at the following number: (704)336-5102.

[✓] Original will not follow [ ] Original will follow via:

[ ] U.S. Mail [ ] Hand Delivery [ ] ____

Permitting Fee $150.00 (4-1-97 2nd site evaluation $75 Ck#57107)

3581B #1

INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM
APPLICATION FOR SERVICES

Mecklenburg County Health Dept.
Environmental Health Division
c/o Hal Marshall Ctr., Suite 211
700 N. Tryon St.
Charlotte, NC 28202

(704)336-5102

PERSON FILING APPLICATION: RALPH F. HOWEY
NAME: THE HOWEY CO., INC.
(last) (first) 377-3697 (mi) Mobile
ADDRESS: 6805-C Fairview Rd. PHONE: (704) 365-6805
CITY: CHARLOTTE STATE: NC ZIPCODE: 28210

Date: 5/3/95

PROPERTY INFORMATION (FROM ENGINEERING FORM):
017-032-04
TAX/PARCEL NUMBER: 017-032-05
STREET ADDRESS: 11801 ~~10901~~ Mt. Holly/Huntersville Rd.
HUNTERSVILLE, NC 28078
ZONING: R-3

PROPERTY OWNER:
NAME: BLYTHE (last) JAMES (first) F. (mi)
ADDRESS: 10324 Sam Furr Rd. PHONE: (704) 892-8934
CITY: Huntersville, STATE: NC ZIPCODE: 28078

SUBDIVISION OR MOBILE HOME PARK NAME:

Township (check one):
[ ] 0 Mecklenburg County [ ] 2 Davidson [ ] 4 Pineville [X] 6 Huntersville
[ ] 1 Charlotte [ ] 3 Cornelius [ ] 5 Matthews [ ] 7 Mint Hill

LOT NUMBER: LOT SIZE (in acres):

TYPE APPLICATION (check one):
[ ] SOIL TEST - INDIVIDUAL LOT (D)
[X] NEW CONSTRUCTION ON VACANT LOT - 4 BEDROOMS OR LESS (N)
[ ] EXCHANGE MOBILE HOME - SAME # BEDROOMS (Y)
[ ] ADDITION - INCREASE ROOMS/OCCUPANCY/MOBILE HOME SIZE (A or M)
[ ] COMMERCIAL OR INDUSTRIAL (N)
[ ] SOIL TEST DEVELOPMENT (P)
[ ] ADDITION - GARAGE OR RENOVATION/NO MAJOR CHANGES (X)
[ ] MODIFIED /ALTERNATIVE/ OR RESIDENCE > 4 BEDROOMS (Z)
[ ] REPAIR TO SYSTEM (R)

RESIDENTIAL PROPERTY (Type Building, check one):
[ ] SINGLE MOBILE HOME (S) [X] HOUSE (H) [ ] MULTIPLE FAMILY (U)
[ ] DOUBLE WIDE (D) [ ] MODULAR HOME (M) [ ] OTHER _____ (O)

NUMBER BEDROOMS: 4 NUMBER OCCUPANTS: 3

SYSTEM CLASSIFICATION:

COMMERCIAL/INDUSTRIAL PROPERTY:
Type Business _____ # Employees ___ Per Shift ___ ___ ___
Industrial Wastes (Y/N) ___
Underground Storage Tanks On Property (Y/N) ___ Type _____

WATER SUPPLY (check one):
[ ] Community (C) [ ] Shared Well (S)
[ ] Municipal (M) [ ] Other 'spring' (O)
[X] Private Well (P)

FUTURE ADDITIONS - ALL PLANNED ADDITIONS MUST BE ENTERED (check all that apply):
[ ] Swimming Pool [ ] Jacuzzi [ ] Stable/Barn [ ] Workshop [X] None
[ ] Garage [ ] Storage Building [ ] Deck/Patio [ ] Bedrooms [ ] Other

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: RALPH F. HOWEY Ralph F. Howey Date: May 11, 1995

NOTICE:

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws And Rules for Sanitary Sewage Collection, 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 permit is not transferable.

...Permit void if [illegible]

...2-1 clay

...Poor soil conditions may

[ ] IMPROVEMENT PERMIT - VALID 60 MONTHS FROM ISSUANCE
[ ] MOBILE HOME EXCHANGE APPROVAL - VALID 6 MONTHS FROM ISSUANCE
[ ] ADDITION/RENOVATION APPROVAL - VALID 1 YEAR FROM ISSUANCE

Site investigation 4-3-97

Environmentalist Date

using Tony Jacobs backhoe soils Jacobs will provide assistance

Director or Authorized Section Head Date

Site near PS-Node

WATER

* [illegible] on adjacent lot Rec'd Ph. M. - 4-4-97

Owls

5/

,50 - left message

for CO Howey @ 892-5827

5/28/97 10:40

5/28/97

Release for final, on

L. T radio call

Nancy born in

Address not in police

DOSED GRAVITY INFILTRATOR SYSTEM PLAN

JAMES F. BLYTHE ESTATE

MECKLENBURG COUNTY - NORTH CAROLIN A
MCHD FILE #3581B TAX PARCEL 017-032-04,05

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

April 22, 1997

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

Mr. Ralph Howey, Chairman
The Howey Company
6805-C Fairview Road
Suite C
Charlotte, N. C. 28210

Paul G. Penninger

Toney C. Jacobs

James F. Blythe Estate

GRAVITY DISTRIBUTION T & J PANEL SYSTEM

Design Considerations

The proposed system is for a 4-bedroom home on a sixty acre farm in a rural area of single family homes in northern Mecklenburg County. The farm is a family tract of land of long holding. This request follows a DWQ permit for a surface spray system, but after the tract was surveyed a provisionally suitable area was found 1500' from the almost completed home. The property was recorded prior to January 1983, and 100% repair area is not required, but there is more than ample suitable area on the tract.

Soils were evaluated by Mr. Bill Marlin of the Mecklenburg County Health Department and the system layout was by Toney C. Jacobs & Associates. Because of accessibility, the chambered system was considered as the best suited system for the tract. The septic system drainfield was flagged in the field as shown in Figure 1. The system will be pumped to a surge tank, chambered system, using 4 x 100' lines. During construction and tree removal precautions should be taken to prevent damaging the system area. The pump supply line crosses a pond dam and stream in compliance with the rules. A copy of the rules for the stream crossing is enclosed in appendix.

Location

The ≈ 60 acre tract is on the west side of Mt. Holly-Huntersville Road, just before Hambright Road.

Reference

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

(2) Infiltrator product information

Recommendation

Four hundred(400) lineal feet of dosed Infiltrator lines using gravity distribution. (Product information sheet on Infiltrator System, Inc. enclosed)

Ownership Responsibility

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). Shower head 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 not require a maintenance contract to be filed with the Mecklenburg County Health Department for the system.

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.

Components of System

1. Two compartment septic tank - 1500 gal.
2. Pump tank 1500 gallons
3. Supply pipe
4. Minimum 50 gal concrete surge tank
5. Speed lever box
6. 400' of chambers with sand backfill on the sides with sand backfill on the sides

Construction Sequence

1. Lines have been flagged as noted on drawing and in specifications.
2. Clear the area of all organic material with minimum soil disturbance (do not grade). Backfill any low areas with clean sandy loam to natural compaction and look. This includes soil evaluation pits and stump holes.
3. Install trenches per cited reference material and this plan.
4. Carefully backfill distribution trenches to grade with clean clay or clay loam soil fill material which is carefully placed and compacted.
5. 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.
6. 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.

7. 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.

8. Supply pipe shall have a metal locator tape or wire should it have to be located. At stream crossing set two PVC markers, one on each side to mark crossing. Follow the enclosed rules for crossing the stream.

9. The dosing tank shall consist of an approved 1500 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.

10. All piping and fitting shall be SCH 40 PVC. Glue for all PVC pipe joints shall be as recommended by the pipe manufacturer.

11. Pump: The submerged pump shall be Model ME 50 manufactured by Myers or equal, 115 or 230 v/l phase; capable of pumping 20 gallons per minute at 47' of head.

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

13. 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".

14. 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.

15. 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 manufacturers 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.

16. 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.

17. With someone at the surge tank, turn pump on and set gate valve at surge tank to deliver 15 gpm.

18. With an open end box and this pump size, the calculation for a presure release valve indicator is not needed. Should an air lock occur, the valve can be added on the knoll in the pasture at the high point on the supply line.

Concluding Note:

This plan was done to facilitate permitting by the Mecklenburg County Health Department by an agent of the owner. Because of the complexity of this system, a pre-installation meeting between Toney C. Jacobs & Associates and the installer is required. This pre-construction meeting will be billed to the builder at current rates. 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.

Design Specifications

Blythe Estate

Daily design flow:	480gpd.
Septic tank size:	1500 gal. (2 compartments)
Pumping tank size:	1500 gal.
Effluent loading rate:	0.3gpd/sf initial system repair the same
Total length and diameter of supply manifold:	app. 1460 lf-2" 40 PVC
Number and length of laterals:	4 @ 100' long
Speed lever control:	4 required
Flow rate through the system:	20 gpm capability
Elevation head:	25.0'
Pressure head:	3.0'
Friction head:	11.0'
20% contingency	7.8
Total head:	46.8
Pump requirements:	13 gpm at 46.8' of head; use Myers "ME 50" ½hp pump or equivalent with compatible electrical
Dosing volume:	240 gal. - 2.0 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. 18.0 min. (run time control of dose
Check valve:	No
Siphon break hole:	No

DETAIL "B"
NOT TO SCALE

4" line 100' on contour 10-20 o.c.

traverse pt. 105

App stream >50' to system

Concrete Surge tank
min. 50 Gallon capacity

110' Repair Area

60.672 ACRES +/-

2" gate valve on line in box to regulate flow

FARM POND

750'

Red BARN

330'

FARM POND

270'

1500gal pump tank
1500gal septic tank

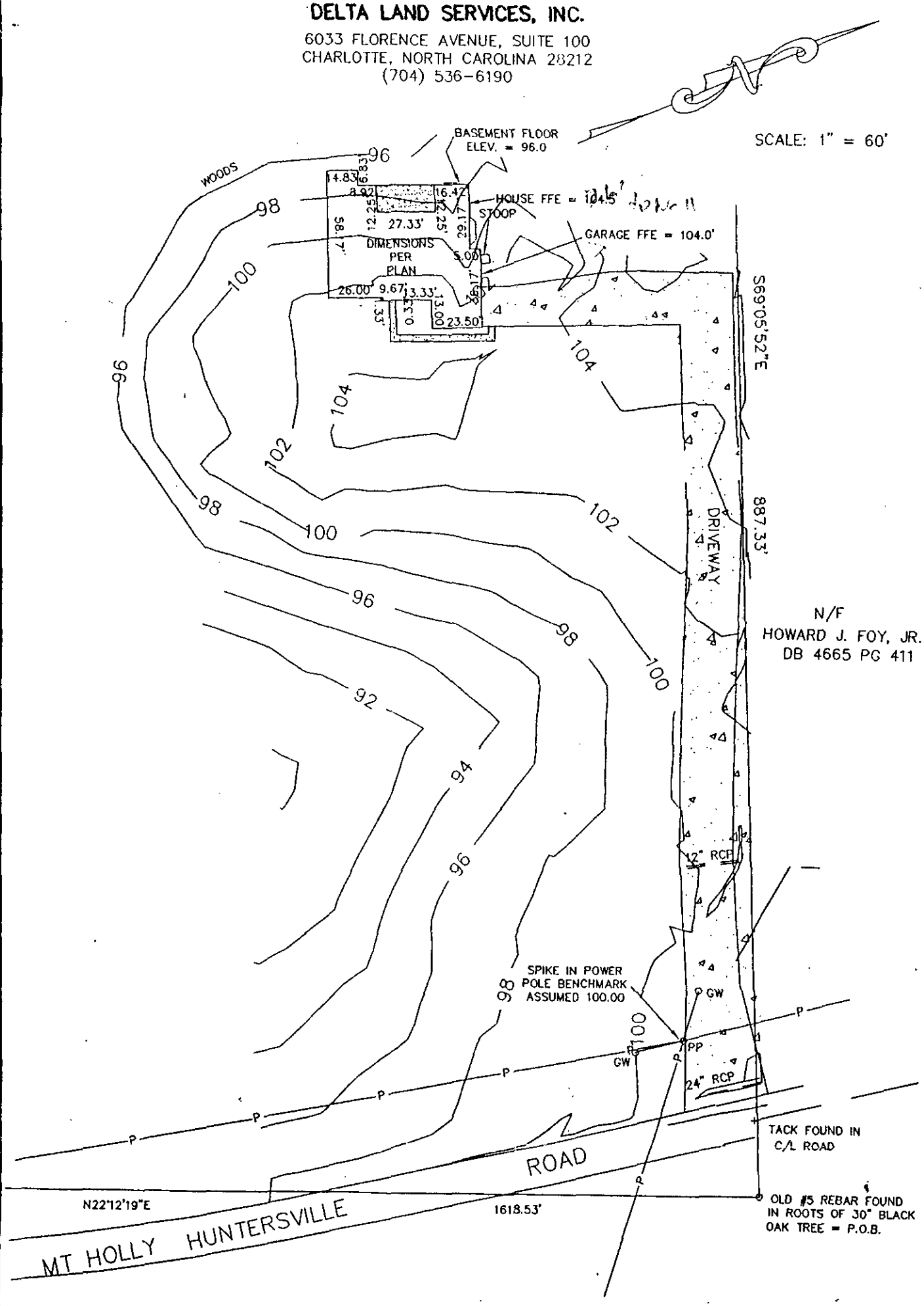
water supply well

see enclosed site plan
(1" = 60')

1" = 200'

MT. HOLLY – HUNTERSVILLE ROAD
S.R. # 2004

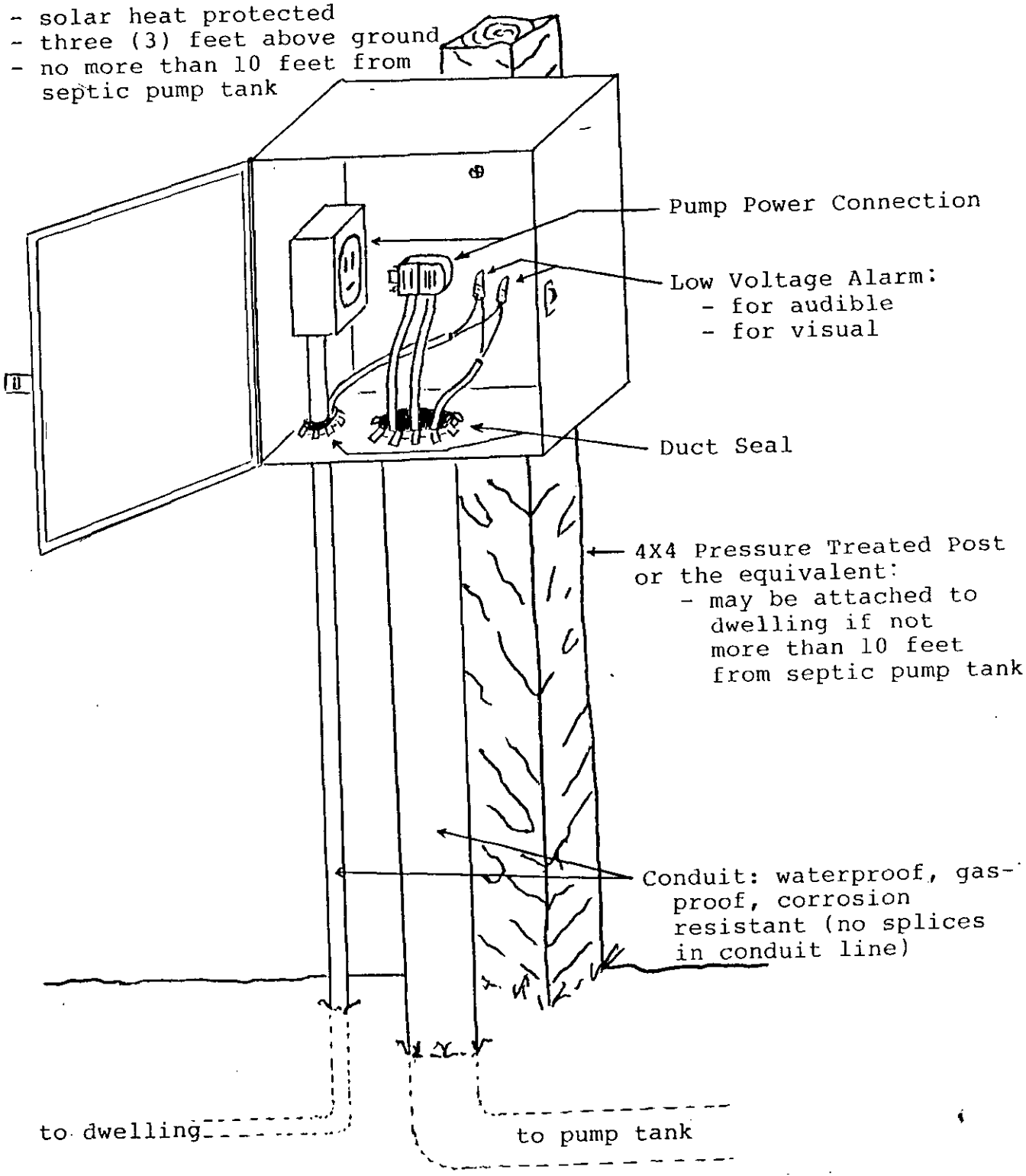
DELTA LAND SERVICES, INC.
6033 FLORENCE AVENUE, SUITE 100
CHARLOTTE, NORTH CAROLINA 28212
(704) 536-6190



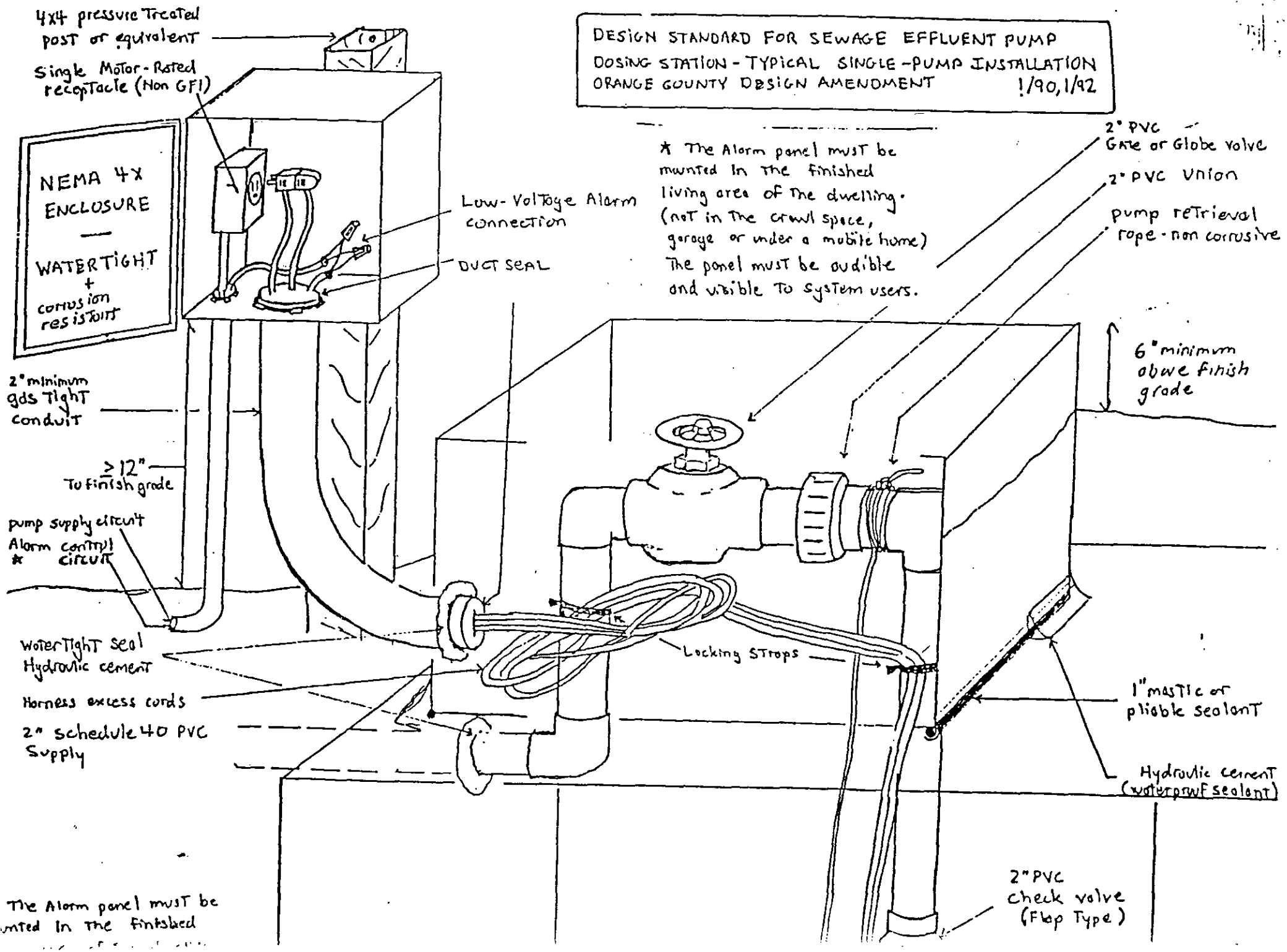
NOT FOR RECORDATION, CONVEYANCES OR SALES

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



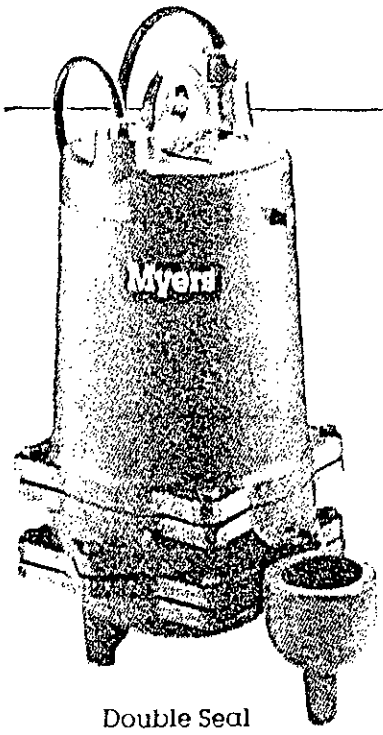
DESIGN STANDARD FOR SEWAGE EFFLUENT PUMP
DOSING STATION - TYPICAL SINGLE-PUMP INSTALLATION
ORANGE COUNTY DESIGN AMENDMENT 1/90, 1/92



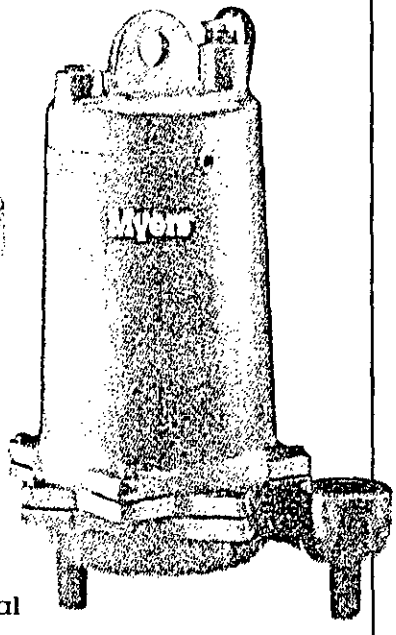
The Alarm panel must be
unted in the finished

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®

TCJ CONSULTING

SITE / SOIL EVALUATION

WRM + TCJ

JOB: Blyth / Hare PHONE: DATE: 4/3/97

LOCATION: PIN: COUNTY: Meck PROPERTY SIZE: 6.0 AC

PROPOSED FACILITY: 4BR WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit✓ Cut__

WEATHER: ANTECEDENT MOISTURE: Mod SURFACE WATER:

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4
LANDSCAPE POSITION	I	I	mod LS	LS and I
HORIZON I DEPTH	0-5	0-5	0-23	0-8 A+E
Color - Munsell	yel br	yel br	red	dk brown yel br
Texture	SCl	scl	C	scl
Structure	g vwf SAB	vwf SAB	m wf SAB f AB	g
Consistence	fri	fri	fri	f friable
Boundary	C			
HORIZON II DEPTH	5-30	5-27	23-61	8-9 9-13 X hit by E
Color - Munsell	red	red	red	br
Texture	C	C	cl	almost sc part
Mottles			few rdish to PM	NA
Structure	mod lg SAB f AB	cl m mod SAB f AB		mod fr
Consistence		friable		fri and
			f clay films nearly cont / distinct dark	many roots
Boundary				
HORIZON III DEPTH	30-39	27-36		13-33
Color - Munsell	red	red		red
Texture	SCl	SCl		C
Mottles				
Structure	wf SAB f AB	wf AB f SAB		wf SAB
Consistence	friable	fr to sl sp		fri
Boundary				
HORIZON IV DEPTH	39-56	36-46		33-54
Color - Munsell	red	yel red		red & yel red mg
Texture	scl	scl		cl
Mottles				
Structure	vw f to m	vw f to m m		vwf SAB
Consistence	friable w	fri		fri
				f clay films
Boundary				54-70 stl spl
SOIL WETNESS				w saprock
RESTRICTIVE HORIZON	NA	NA	NA	NA
SAPROLITE				
LTAR	.3	.3	.3	.3
CLASSIFICATION	PS	PS	PS	PS

LEGEND

LANDSCAPE POSITION
R - Ridge
S - Shoulder
L - Linear slope
S - Foot slope
N - Nose slope
H - Head slope
Cc - Concave slope
Cv - Convex slope
T - Terrace
P - Flood Plain

TEXTURE
s - sand
ls - loamy sand
sl - sandy loam
l - loam
si - silt
sil - silt loam
sicl - silty clay loam
cl - clay loam
scl - sandy clay loam
sc - sandy clay
sic - silty clay
c - clay

CONSISTENCE
MOIST / WET
Ns - non-sticky
Ss - slightly sticky
S - sticky
Vs - very sticky

Np - non-plastic
Sp - slightly plastic
P - plastic
Vp - very plastic

MOIST
vfr - very friable
fr - friable
fi - firm
vfi - very firm
efi - extremely firm

STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic

Initial Fee $150.00
Permitting Fee $150.00

3581B

INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM
APPLICATION FOR SERVICES

$112.50 Chk 5128 Additional Fee Invoiced 5/30/95 Pd 5/31/95 Ck # 50039

Mecklenburg County Health Dept.
Environmental Health Division
c/o Hal Marshall Ctr., Suite 211
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☐ MOBILE HOME EXCHANGE APPROVAL - VALID 6 MONTHS FROM ISSUANCE
☐ ADDITION/RENOVATION APPROVAL - VALID 1 YEAR FROM ISSUANCE

_____ Environmentalist Date

_____ Director or Authorized Section Head Date

WATER : 12279

* Kit in advance

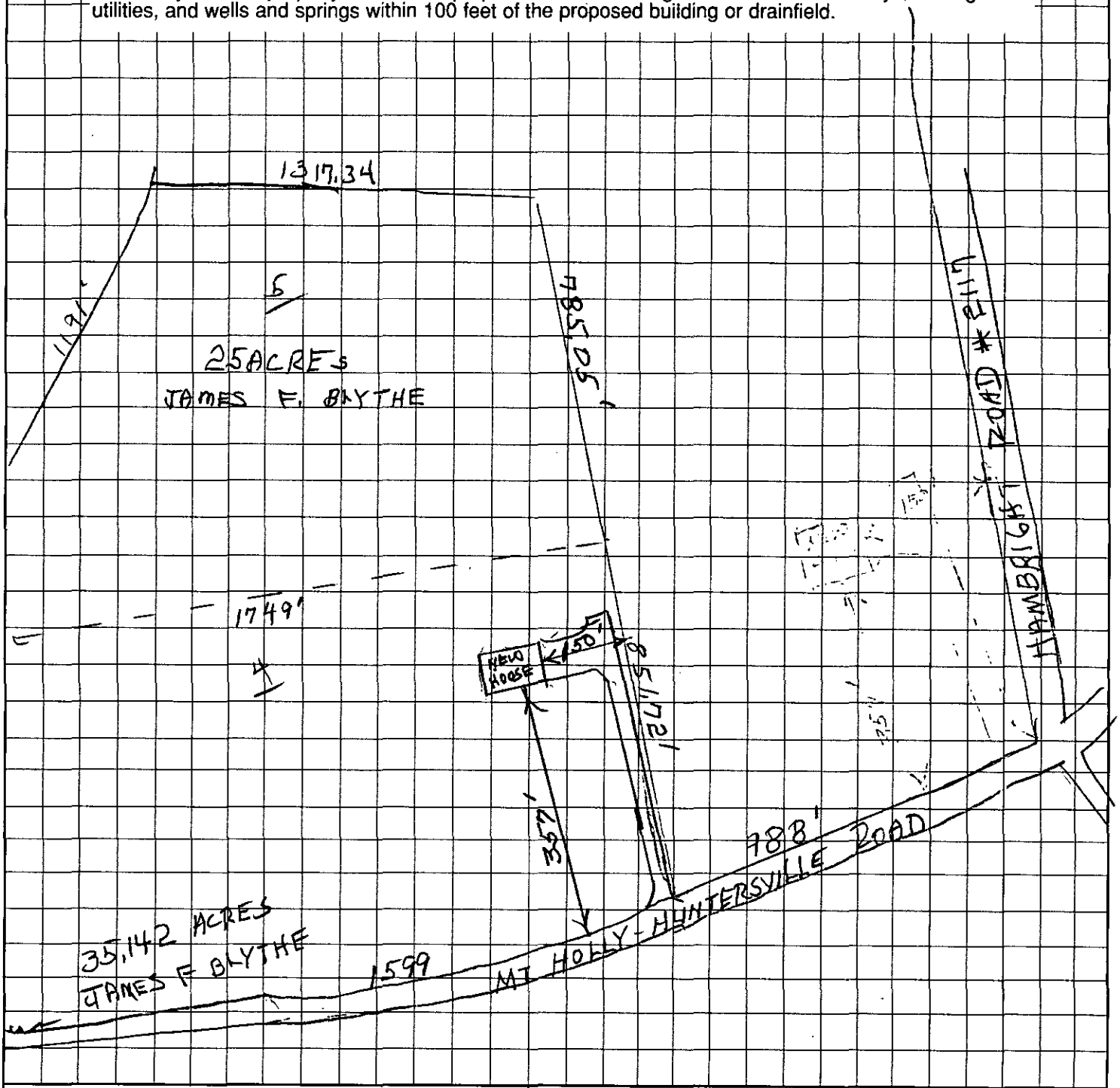
PROPOSED PLOT PLAN

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

FILE: 3581B

TC: _____

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.

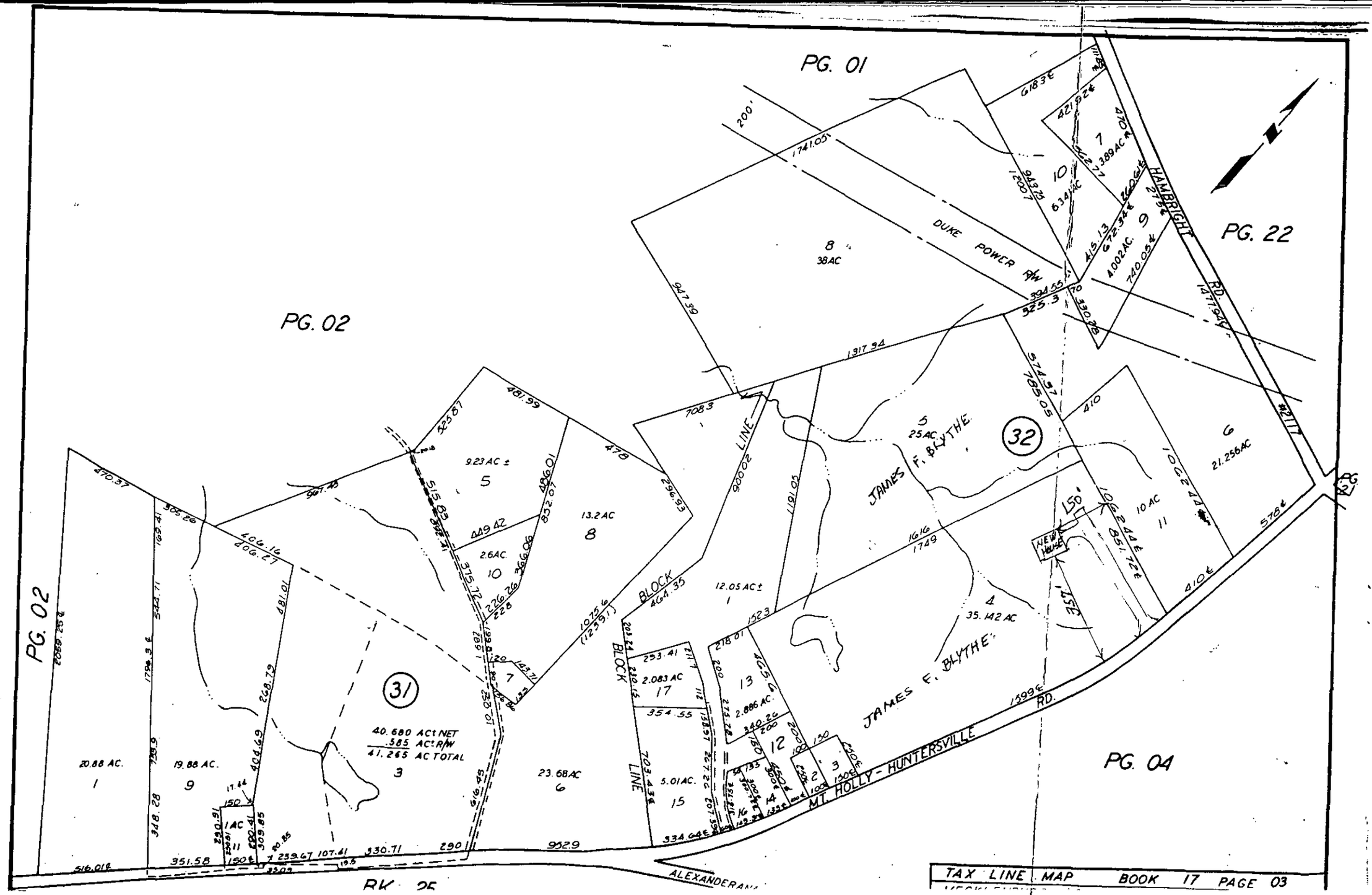


Ralph T. Howen agent
OWNER/AGENT SIGNATURE

DATE May 11, 1995

APPROVAL DATE _____

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


PG. 01
PG. 02
PG. 22
PG. 04
PG. 02
DUKE POWER R/W
HAMBRIGHT RD.
MT. HOLLY - HUNTERSVILLE RD.
ALEXANDERANA
RK 25
JAMES F. BLYTHE
JAMES E. BLYTHE
BLOCK LINE
BLOCK LINE
NEW HOME
TAX LINE MAP BOOK 17 PAGE 03

Recording Fee $15.00 — 4-1-97 2nd Site Evaluation — $175.00 CK#57107

INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM
APPLICATION FOR SERVICES

3581B

Mecklenburg County Health Dept.
Environmental Health Division
c/o Hal Marshall Ctr., Suite 211
700 N. Tryon St.
Charlotte, NC 28202

(704)336-5102

PERSON FILING APPLICATION: RALPH F. HOWEY
NAME: THE HOWEY CO., INC.
(last) (first) 377-3699 (mi) Mobile
ADDRESS: 6805-C Fairview Rd. PHONE: (704) 365-6805
CITY: CHARLOTTE STATE: NC ZIPCODE: 28210

Date: 5/3/95

PROPERTY INFORMATION (FROM ENGINEERING FORM):
TAX/PARCEL NUMBER: 017-032-04 017-032-05
STREET ADDRESS: ~~10901~~ 11001 Mt. Holly/Huntersville Rd.
HUNTERSVILLE, NC 28078
ZONING: R-3

PROPERTY OWNER:
NAME: BLYTHE JAMES F.
(last) (first) (mi)
ADDRESS: 10324 Sam Furr Rd. PHONE: (704) 892-8934
CITY: Huntersville, STATE: NC ZIPCODE: 28078

SUBDIVISION OR MOBILE HOME PARK NAME:

Township (check one):
☐ 0 Mecklenburg County ☐ 2 Davidson ☐ 4 Pineville ☒ 6 Huntersville
☐ 1 Charlotte ☐ 3 Cornelius ☐ 5 Matthews ☐ 7 Mint Hill

TYPE APPLICATION (check one):

LOT NUMBER: LOT SIZE (in acres):

☐ SOIL TEST - INDIVIDUAL LOT (D)
☒ NEW CONSTRUCTION ON VACANT LOT - 4 BEDROOMS OR LESS (N)
☐ EXCHANGE MOBILE HOME - SAME # BEDROOMS (Y)
☐ ADDITION - INCREASE ROOMS/OCCUPANCY/MOBILE HOME SIZE (A or M)
☐ COMMERCIAL OR INDUSTRIAL (N)
☐ SOIL TEST DEVELOPMENT (P)
☐ ADDITION - GARAGE OR RENOVATION/NO MAJOR CHANGES (X)
☐ MODIFIED /ALTERNATIVE/ OR RESIDENCE > 4 BEDROOMS (Z)
☐ REPAIR TO SYSTEM (R)

RESIDENTIAL PROPERTY (Type Building, check one):
☐ SINGLE MOBILE HOME (S) ☒ HOUSE (H) ☐ MULTIPLE FAMILY (U)
☐ DOUBLE WIDE (D) ☐ MODULAR HOME (M) ☐ OTHER _____ (O)

NUMBER BEDROOMS: 4 NUMBER OCCUPANTS: 3

SYSTEM CLASSIFICATION:

COMMERCIAL/INDUSTRIAL PROPERTY:
Type Business _____ # Employees ___ Per Shift ___ ___ ___
Industrial Wastes (Y/N) ___
Underground Storage Tanks On Property (Y/N) ___ Type _____

WATER SUPPLY (check one):
☐ Community (C) ☐ Shared Well (S)
☐ Municipal (M) ☐ Other 'spring' (O)
☒ Private Well (P)

FUTURE ADDITIONS - ALL PLANNED ADDITIONS MUST BE ENTERED (check all that apply):
☐ Swimming Pool ☐ Jacuzzi ☐ Stable/Barn ☐ Workshop ☒ None
☐ Garage ☐ Storage Building ☐ Deck/Patio ☐ Bedrooms ☐ Other

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: RALPH F. HOWEY Ralph F. Howey Date: May 11, 1995

NOTICE:

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws And Rules for Sanitary Sewage Collection, 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 permit is not transferable.

... Aspalite 6-16"

2-1 clay

PW as shallow as 6"

☐ IMPROVEMENT PERMIT - VALID 60 MONTHS FROM ISSUANCE
☐ MOBILE HOME EXCHANGE APPROVAL - VALID 6 MONTHS FROM ISSUANCE
☐ ADDITION/RENOVATION APPROVAL - VALID 1 YEAR FROM ISSUANCE

Environmentalist Date

Director or Authorized Section Head Date

WATER 22791

* Kit in advance

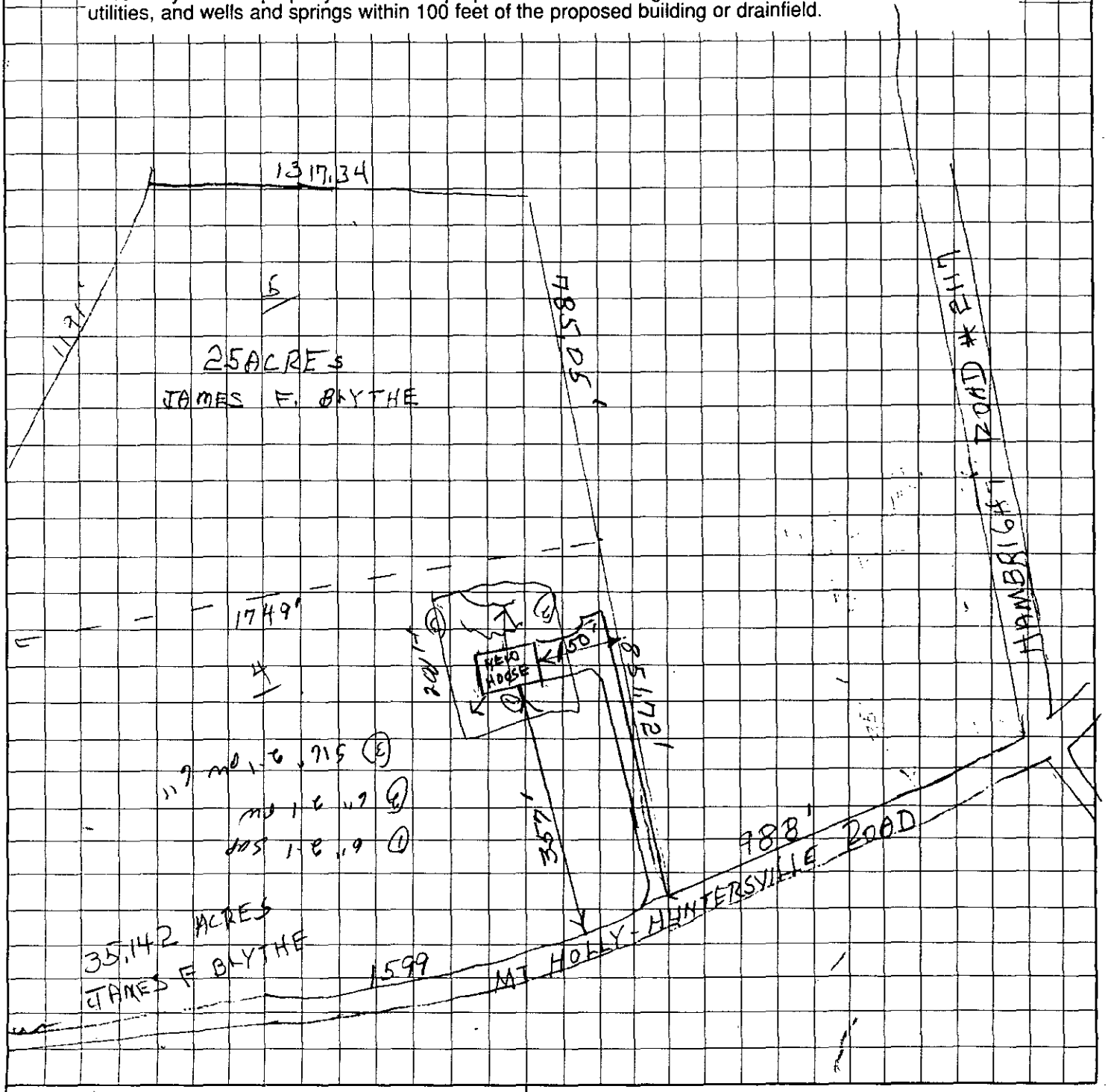
PROPOSED PLOT PLAN

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

FILE: 3581B

TC: _____

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



Robert L. Howell agent
OWNER/AGENT SIGNATURE

DATE May 11, 1995

APPROVAL DATE _____

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

THE HOWEY COMPANY
BUILDERS AND DEVELOPERS

May 15, 1995

Ms. Lorraine C. Whitaker
Mecklenburg County Health Department
Environmental Health Division
700 North Tryon Street
Charlotte, NC 28202

Re: Request for inspection of soil for a private septic tank system at 10901 Mount Holly-Huntersville Road.

Dear Ms. Whitaker:

Please find attached an application form, proposed plat plan, tax map, and our check in the amount of $150.00 requesting an inspection of the soil for a private septic tank system at 10901 Mt. Holly-Huntersville Road.

The Howey Co., Inc., acting as General Contractor for the construction of a new house for Mr. James F. Blythe, is submitting this application for service. Mr. Blythe cannot sign the application due to limited use of his hand and arm due to a stroke some years ago. Mr. Blythe owns the sixty acres and The Howey Co., Inc. will be constructing a new home for Mr. Blythe.

The site will be marked "request for soil test" and four stakes representing the approximate corners of the house will be installed. I would like to be present when the site is inspected. I can be contacted at 365-6805 or 577-3677 (mobile).

Thank you for your assistance.

Sincerely,

Ralph Howey

Ralph F. Howey

xc: Mr. James F. Blythe

Mr. Woodrow Farmer
Parker, Poe, Adams & Bernstein

HBA MEMBER

6805-C FAIRVIEW ROAD, CHARLOTTE, NORTH CAROLINA 28210-2702
PHONE 704 365-6805 • FAX 704 365-6818

REALTOR®

MECKLENBURG COUNTY HEALTH DEPARTMENT
SITE EVALUATION REPORT
SERIAL NUMBER 028580

File: 3581 G Action 3

Parcel: PO 117-032-04 ☐ PC

Location: 10901 Mt. Holly-Huntersville Rd.

Subdivision:

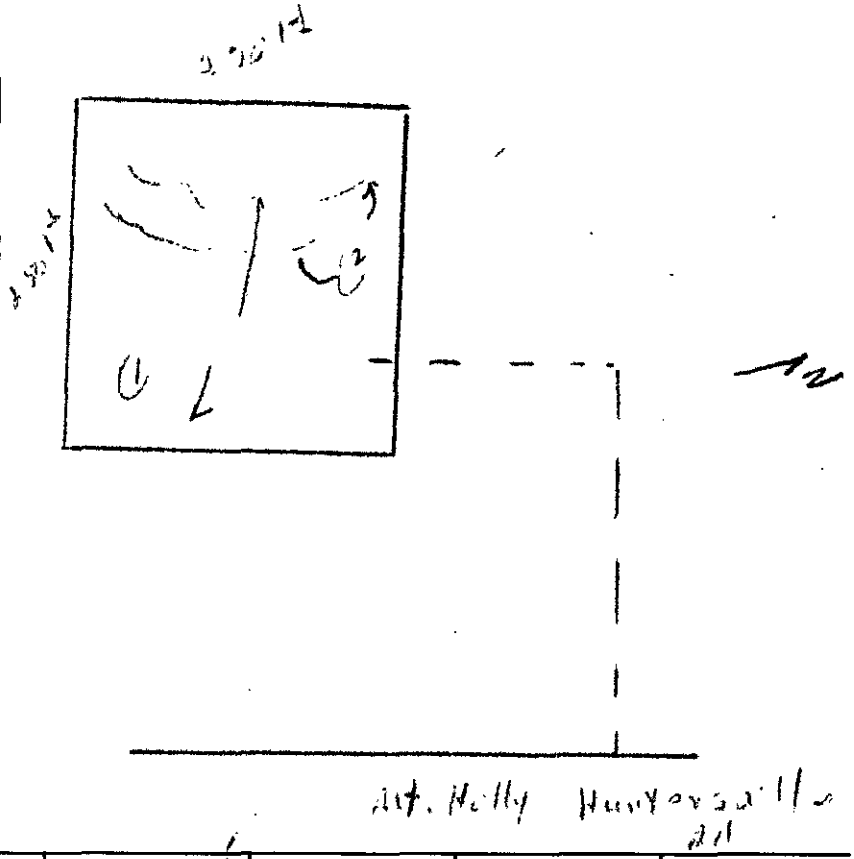
Lot: Block: Acres: Approx. 1.4 ac.

Owner: James F. Blyth
Address: 10324 Sam Furr Rd.
Huntersville, N.C. 28078

Comments: Lot size if 10%. Repair as required

Described by: William A. Marks

Date: 5-23-15



*** EVALUATION KEY ***

S = Suitable U = Unsuitable
PS = Provisionally Suitable
The "Area Classification" below indicates the suitability of areas in the diagram.

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Topography	(S) PS U 2-10%	S PS (U) Terraces	S PS U	S PS U	S PS U	S PS U
Texture Expansive	S PS (U) clay	S PS U —	S PS U	S PS U	S PS U	S PS U
Structure	S (PS) U Blocky	S PS U —	S PS U	S PS U	S PS U	S PS U
Drainage soil wetness	S PS (U) 6-12"	S PS U —	S PS U	S PS U	S PS U	S PS U
Depth	S PS (U) 6-16"	S PS U —	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	S PS U N/A	S PS U —	S PS U	S PS U	S PS U	S PS U
Available Space	S (PS) U	S PS U	S PS U	S PS U	S PS U	S PS U
Other (specify)	S PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Soil Group/Series	Series Not Determined	Terraces				
Area Classification	S PS (U)	S PS (U)	S PS U	S PS U	S PS U	S PS U

.1941 Corpus clay
.1942 Soil Meters condition
6-12"
.1943 Soil Depth 6-18"

MECKLENBURG COUNTY HEALTH DEPARTMENT
SITE EVALUATION REPORT
SERIAL NUMBER 028609

File: 3581B
Parcel: 017-032-04
017-032-05
Action 3
☐ PC

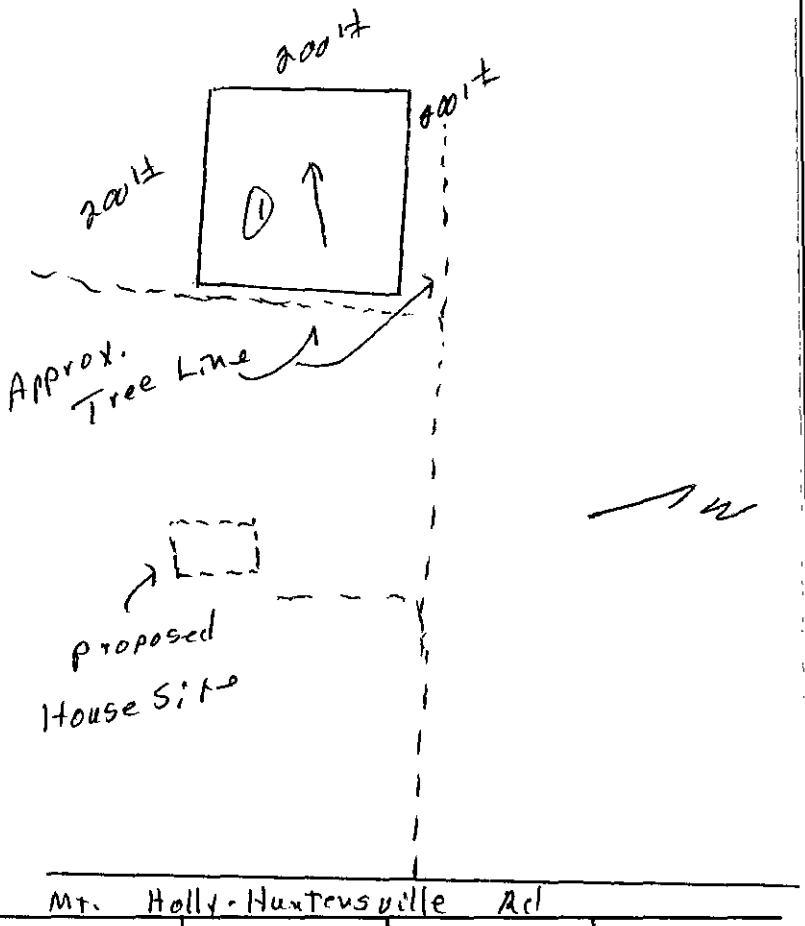
Location: 11001 ~~10901~~ Mt. Holly Huntersville Road
Subdivision:
Lot: Block: Acres: Approx. 1.0

Owner: James F. Blythe
Address: 10324 Sam Furr Road
Huntersville, N.C. 28078

Comments: _____

Described by: William R. Marlin
Date: 6-14-95

***** EVALUATION KEY *****
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The "Area Classification" below indicates the suitability of areas in the diagram.



FACTORS	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Topography	(S) PS U 6-12%	S PS U	S PS U	S PS U	S PS U	S PS U
Texture	S PS (U) Expansive clay	S PS U	S PS U	S PS U	S PS U	S PS U
Structure	S (PS) U Blocky	S PS U	S PS U	S PS U	S PS U	S PS U
Drainage	S PS (U) Soil Wetness 6-12"	S PS U	S PS U	S PS U	S PS U	S PS U
Depth	S PS (U) 6-18"	S PS U	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	S (PS) U >36"	S PS U	S PS U	S PS U	S PS U	S PS U
Available Space	S (PS) U	S PS U	S PS U	S PS U	S PS U	S PS U
Other (specify)	S PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Soil Group/Series	Series Not Determined					
Area Classification	S PS (U)	S PS U	S PS U	S PS U	S PS U	S PS U

MECKLENBURG COUNTY HEALTH DEPARTMENT
SITE EVALUATION REPORT
SERIAL NUMBER 028580

File: 3581 B Action 3

Parcel: PO 017-032-04 ☐ PC

Location: 11001 ~~10991~~ Mt. Holly-Huntersville Rd.

Subdivision:

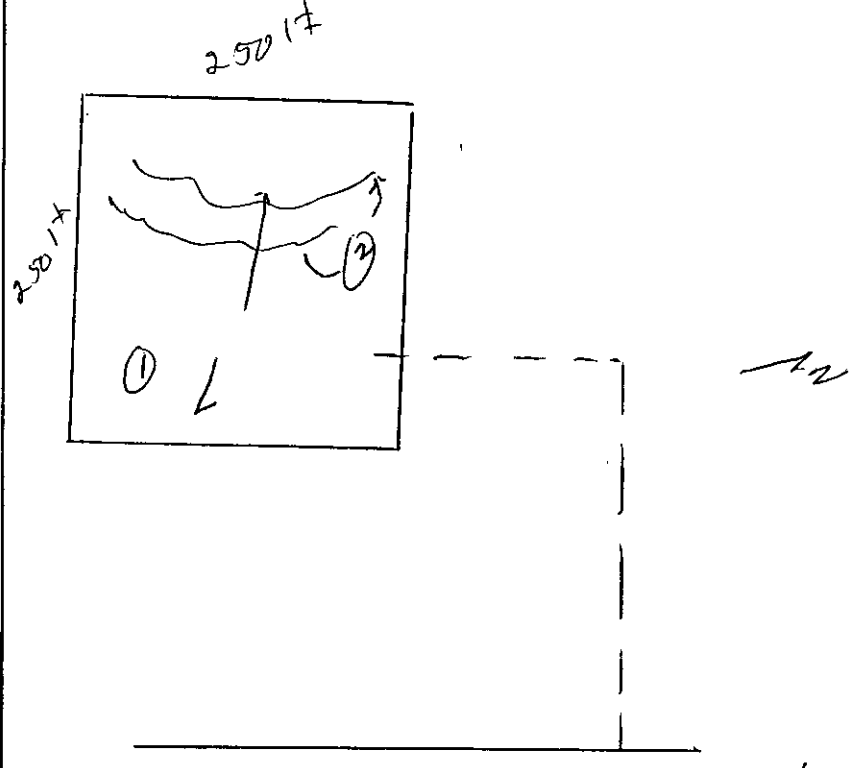
Lot: Block: Acres: Approx. 1.4 ac.

Owner: James F. Blythe
Address: 10324 Sam Furr Rd.
Huntersville, N.C. 28078

Comments: Not sure if 100% Repair is required

Described by: William R. Mauldin

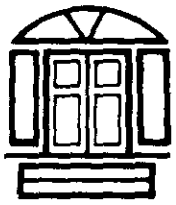
Date: 5-23-95



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Drainage soil wetness	S PS (U) 6-12"	S PS U —	S PS U	S PS U	S PS U	S PS U
Depth	S PS (U) 6-16"	S PS U —	S PS U	S PS U	S PS U	S PS U
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Other (specify)	S PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Soil Group/Series	series Not Determined	Terraces				
Area Classification	S PS (U)	S PS (U)	S PS U	S PS U	S PS U	S PS U



THE HOWEY COMPANY
BUILDERS AND DEVELOPERS

Pd. # 75.00
5/30/95
Ck. # 50128

May 25, 1995

Mr. William R. Marlin, C.P.S.S.
Soil Scientist
Mecklenburg County Health Department
700 North Tryon Street
Charlotte, NC 28202

Optional Site Evaluation File 3581B

Re: Soil Investigation/~~10901~~ 11061 Mount Holly-Huntersville Road
Mr. James F. Blythe

Dear Mr. Marlin:

Thank you for your additional investigation and inspection of the soil maps for the above sixty (60) acres.

Enclosed is our check in the amount of seventy-five ($75.00) for your additional on-site investigation of this site for a location that could be used for a septic tank field.

Please call me for additional information or for any assistance I may be.

Sincerely,

Ralph F. Howey

Ralph F. Howey

RFH:ach

Enclosure

cc: Stan Howey
Mr. James F. Blythe

HBA MEMBER

6805-C FAIRVIEW ROAD, CHARLOTTE, NORTH CAROLINA 28210-2702
PHONE 704 365-6805 • FAX 704 365-6818

REALTOR