S

FEE: 200.00
DATE:5/1/2015

**MECKLENBURG COUNTY**
**GROUNDWATER & WASTEWATER SERVICES**

**FILE NUMBER:** 3983B

**PERMIT NUMBER:** 30007418

**PARCEL NUMBER:** 02325254

**JOB LOCATION INFORMATION**

**ADDRESS:** 5944 MOUNTAIN POINT LN

**CITY:** CHARLOTTE **STATE: NC** **ZIP:** 28216

**ISSUED TO:** Carlo Lokuan

**CONSTRUCTION AUTHORIZATION ISSUANCE DATE:** 6/1/2015

## CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30007418, 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. A PRE-CONSTRUCTION MEETING MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A LICENSED SEPTIC TANK CONTRACTOR WITH THE NORTH CAROLINA ONSITE WASTEWATER CONTRACTOR INSPECTOR CERTIFICATION BOARD.

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 CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.

# Supervisor/Administrative Professional Checklist

**New Septic** ☑ **New Well** ☐ **Use Existing** ☐ **Alteration** ☐ **Modified Plot Plan** ☐

**New Septic Fees Paid:**

IP ($250.00) Linda Snider Initials/Date 2/23/15 Receipt # 93133

CA ($200.00) VAW Initials/Date This part of the $200.00 from Credit

OP ($200.00) VAW Initials/Date 4/16/15

(CA and OP fees need to be paid before a building permit can be issued)

**New Well Fee Paid:** $550.00 VAW

**Use E**

**Altera** Initials/Date

**Modif**

Credit of $ New system (

Linda Snider for a

Floor p SPM

This sit

Septic fi

Send permit for sig

This septic system re

Certified operator co

Jeremy,

I REVIEWED THE FLOOR PLANS ON-SITE w/ Jacob M. I EMAILED JACOB MOCK FOR SIGNATURES - 4/30/15 JM

3983B MECKLENBURG COUNTY HEALTH DEPARTMENT APP# 7418

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. SEPTIC / TYPE APPLICATION: ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ◉ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ○ N/A ◉ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. JOB LOCATION INFORMATION:

TAX PARCEL NUMBER: 02325254

STREET ADDRESS: 5944 Mountain Point Lane

CITY: Charlotte

STATE: NC ZIP: 28216

SUBDIVISION NAME: Mountain Point Estates

LOT #: 6 LOT SIZE (acres): 2.02

TOWNSHIP:

◉ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. BUILDING INFORMATION:

BUILDING TYPE:

○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER

HEATED SQUARE FOOTAGE: 2,600

NUMBER OF BEDROOMS: 4

NUMBER OF OCCUPANTS: 2

FOUNDATION TYPE:

○ CONCRETE SLAB ◉ BASEMENT WITH PLUMBING
○ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☑ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ○ MUNICIPAL ◉ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. PROPOSED USE OF WELL: ○ N/A ○ IRRIGATION ◉ POTABLE (DRINKING WATER) ○ OTHER _____

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:

☐ N/A ☐ ANY TYPE ☒ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☑ OTHER See SPECS

8A. RANK: 1 ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

| | | | |
|---|---|---|---|
| BURIED CABLES, LANDFILLS, STUMPHOLES | ○ YES ◉ NO | GRADING/SOIL REMOVAL PERFORMED | ○ YES ◉ NO |
| EXISTING WASTEWATER (SEPTIC) SYSTEMS | ○ YES ◉ NO | JURISDICTIONAL WETLANDS | ○ YES ◉ NO |
| WELLS, SPRINGS, OR WATER LINES | ○ YES ◉ NO | APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY | ○ YES ◉ NO |
| EASEMENTS OR RIGHT-OF-WAYS | ◉ YES ○ NO | WASTEWATER OTHER THAN DOMESTIC SEWAGE | ○ YES ◉ NO |
| CHEMICAL/PETROLEUM STORAGE TANKS | ○ YES ◉ NO | KNOWN UNDERGROUND CONTAMINATION | ○ YES ◉ NO |
| WASTE STORAGE | ○ YES ◉ NO | GROUNDWATER USE RESTRICTIONS/VARIANCES | ○ YES ◉ NO |

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____ ☑ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 3/6/15 ☐ N/A

12. PROPERTY OWNER:

NAME: Carlo Lokuan

ADDRESS: N/A

CITY: N/A

STATE: N/A ZIP: _____

WORK PHONE: _____

MOBILE PHONE: _____

FAX: _____

E-MAIL: _____

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

NAME: Jacob Mock (Buyer)

ADDRESS: 415 Lady Fairbank Ct.

CITY: Boiling Springs

STATE: SC ZIP: 29316

WORK PHONE: (704) 357-5587

MOBILE PHONE: (336) 239-6606

FAX: _____

E-MAIL: jacob.mock1@gmail.com



MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/16/10

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

JBM (initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

JBM (initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Property Owner's or Owner's Legal Representative Signature

02/12/2015
Date

*OFFICE USE ONLY*

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:



MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

File #: _____

## PROPOSED PLOT PLAN

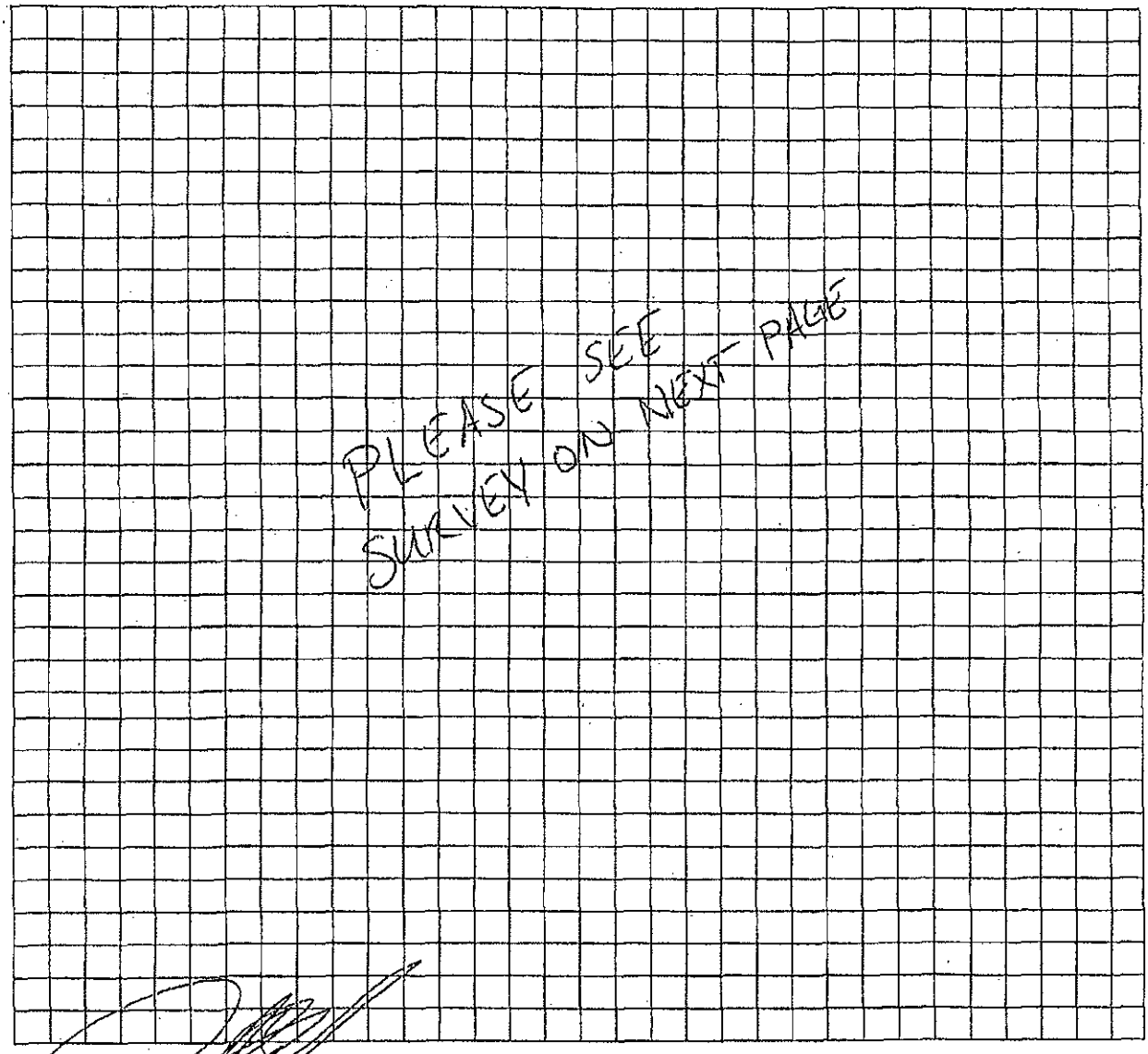
A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 5944 Mountain Point Lane

Tax Parcel #: 02325254

Subdivision Name: Mountain Point Estates

Lot #: 6




Property Owner's or Owner's Legal Representative Signature

02/12/2015
Date



MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

**Modified Plot Plan**
**Residential T & J Panel Septic System**
**For**
**Subsurface Wastewater Disposal**
**Lot 6 Mountain View Estates**

MCHD File # 3983B  Active Permit # 30001264

The approved system on file was designed by:
Toney C. Jacobs & Associates, Inc.
168 Broadbill Drive
Mooresville, NC 28117
August 3, 2000

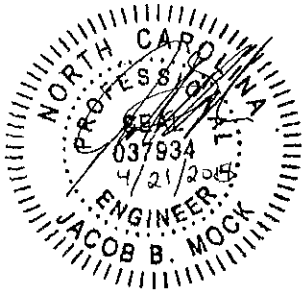
Modified Plot Plan and System Design by:
Jacob B. Mock, P.E.

April 14, 2015

**GWS Septic System Design Review**

| | | |
|---|---|---|
| **GWS File #:** 3983B | **Approved** | **Disapproved** |
| **Design Review:** | ☑ | ☐ |
| **Field Review:** | ☑ | ☐ |

***Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.**



Background and Summary

5944 Mountain Point Lane was originally evaluated by Bill Marlin of MCHD in July of 1999 and found to be unsuitable. Toney C. Jacobs & Associates, Inc. performed a soil/ site evaluation on July 17, 2000. Jacobs designed a system around two subfields at 0.3 gpd/ft$^2$. The subfields were above the proposed house location and therefore included a pump system. This system calls for 300' of T & J Panels and a 100% repair on an easement on Lot 7.

The modified plot plan shows a house location that can gravity flow to the approved subfields. I recommend maintaining the subfield design specifications already approved by MCHD. A proportional flow divider will be installed to equally distribute to two subfields. A supply manifold will be installed for each subfield. The Jacobs design called for 2 lines of 75' T & J Panel for subfield A. That will be changed to 3 lines of 50' T & J Panel.

Ownership of the Lot 6 includes an easement on Lot 7 for the 100% repair area. The repair will be a T & J Panel system installed to the specifications below. The repair area is noted on the site layout. A pump tank with associated pump will need to be installed at the time of repair.

Plans and Specs for System Components

Septic Tack

1. Tank to receive waste water directly from house.
2. Tank shall be water tight, structurally sound and not subject to corrosion or decay.
3. Must be a two compartment tank
4. Effluent to from two compartment tank to gravity flow through a Sate approved filter.

Pipe and Fittings

1. All pipes and fitting should be SCH 40 PVC
2. All Joints must be sealed with appropriate PVC solvent cement.
3. Lateral lines to be 1 1/4" SCH 40 PVC through T & J Panels
4. Minimum 12" cover over all supply lines.

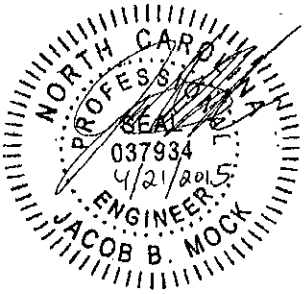
Construction Installation

Site Preparation

1. Protect subfield location from heavy equipment.
2. Remove brush and small trees, but do not grade.

Tank Installation

1. Two-compartment 1500 gallon tank installed
2. Install filter and proportional flow divider

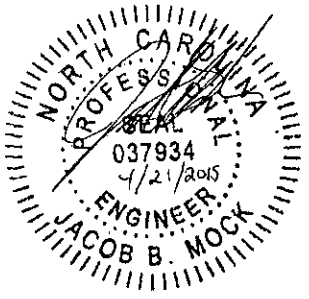


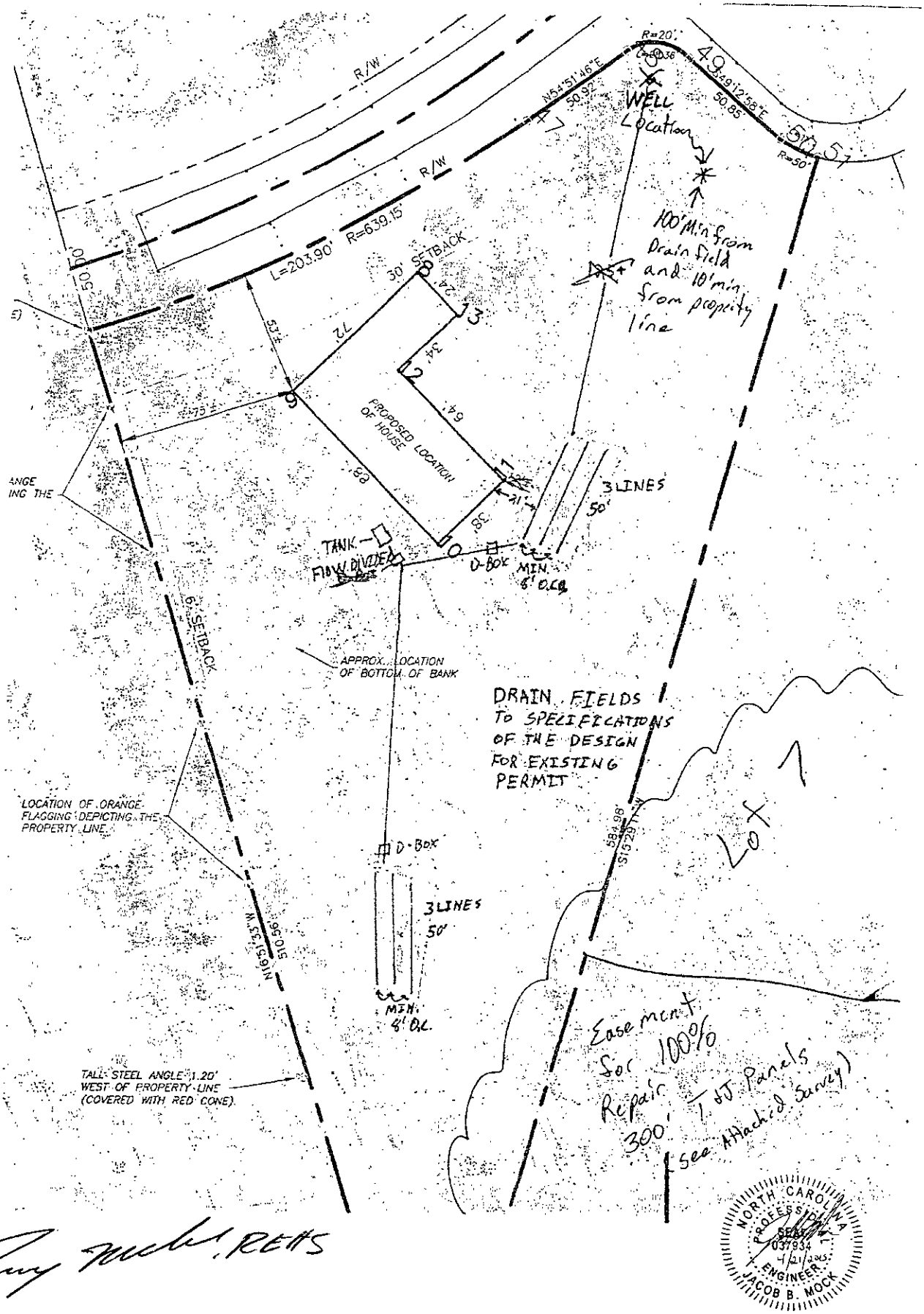
T & J Lateral Lines

1. Install per manufacturers' guidelines.
2. Trenches shall be 24" wide and a minimum 8' on center and level from end to end.

Design Specifications

| | | |
|---|---|---|
| Daily Design Flow | 480 gpd. | |
| Septic Tank Size | 1500 gal. (2 Compartment) | |
| Effluent Loading Rate | 0.3 gpd/ft$^2$ | |
| | Subfield A | Subfield B |
| Supply Pipe 2" SCH 40 PVC | 20' | 125' |




R/W
R/W
L=203.90'
R=639.15'
50'
30' SETBACK
N54°51'46"E
50.92'
R=20'
49°49'12"
50.85'
R=50'
WELL Location
100' Min from Drain field and 10' min from property line
PROPOSED LOCATION OF HOUSE
3 LINES
50'
TANK
FLOW DIVIDER
D-BOX
MIN. 6' O.C.
6' SETBACK
APPROX. LOCATION OF BOTTOM OF BANK
DRAIN FIELDS TO SPECIFICATIONS OF THE DESIGN FOR EXISTING PERMIT
LOT 1
LOCATION OF ORANGE FLAGGING DEPICTING THE PROPERTY LINE
D-BOX
3 LINES
50'
MIN. 6' O.C.
N15°45'19"W
510.56'
S15°29'17"W
584.98'
TALL STEEL ANGLE 1.20' WEST OF PROPERTY LINE (COVERED WITH RED CONE)
Easement for 100% Repair - 300' (see Attached Survey)
NORTH CAROLINA PROFESSIONAL SEAL 037934 ENGINEER JACOB B. MOCK
4/21/2015

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

# IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30007418** GWS File #: **3983B** Tax Parcel #: **023-252-54**

- This 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.

**I. This Improvement Permit Shall:** Expire in Five (5) Years **Expiration Date (If Applicable):** 4/22/2020

Type of Installation: Residential - Modified Plot Plan Lot Number: 6

Structure Type: HOUSE Size ($ft^2$): 2600 # Bedrooms: 4 # Occupants: 2

Building Foundation: Basement With Plumbing Water Supply: Private Well

**II. Initial System Type:** PPBPS (gravity) **System Classification:** IIIe

Initial System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 480 | LTAR ($gpd/ft^2$): | 0.3 | Septic Tank Size (gal): | 1500 | Pump Tank Size (gal): | N/A |
| Trench Width (ft): | 2 | Trench Spacing (ft): | 8 | Absorption Area ($ft^2$): | 534 | Total Trench Length (ft): | 267 |
| Maximum Trench Depth (in): | 30 | Depth of Media (in): | N/A | Distribution Device: | Distribution Box | | |

**III. Repair System Type:** PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 480 | LTAR ($gpd/ft^2$): | 0.3 | Septic Tank Size (gal): | 1500 | Pump Tank Size (gal): | 1000 |
| Trench Width (ft): | 2 | Trench Spacing (ft): | 8 | Absorption Area ($ft^2$): | 800 | Total Trench Length (ft): | 400 |
| Maximum Trench Depth (in): | 30 | Depth of Media (in): | N/A | Distribution Device: | Manifold (LPP Distri | | |

**IV. Permit Conditions/Comments:**

*(Please See the Following Page for Permit Conditions.)*

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michelone Owner/Legal Agent: _____
Print Name

Signature: Jeremy Michelone REHS Signature: _____

Date Issued: 4/22/2015

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

## IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30007418** GWS File #: **3983B**

**IV. Permit Conditions/Comments:**

- Easement agreement forms shall be on file and the property shall be deeded and recorded prior to issuance of Construction Authorization.
- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The invert of the sewer pipe exiting the structrue should be kept as high as possible in order to achieve gravity flow to the drain field. A dosing tank will be required if gravity flow to the drain field can not be achieved.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michelone

Signature: Jeremy Michelone REHS

Date Issued: 4/22/2015

Owner/Legal Agent: _____
Print Name

Signature: _____

39838
9119B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APP# 7310 7418

**APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL**

1. SEPTIC / TYPE APPLICATION: ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ◉ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ○ N/A ◉ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. JOB LOCATION INFORMATION:

TAX PARCEL NUMBER: 02325254
STREET ADDRESS: 5944 Mountain Point Lane
CITY: Charlotte
STATE: NC ZIP: 28216
SUBDIVISION NAME: Mountain Point Estates
LOT #: 6 LOT SIZE (acres): 2.02
TOWNSHIP:

◉ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. BUILDING INFORMATION:

BUILDING TYPE:

○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER

HEATED SQUARE FOOTAGE: 2,600
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 2

FOUNDATION TYPE:

○ CONCRETE SLAB ◉ BASEMENT WITH PLUMBING
○ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☑ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ○ MUNICIPAL ◉ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. PROPOSED USE OF WELL: ○ N/A ○ IRRIGATION ◉ POTABLE (DRINKING WATER) ○ OTHER _____

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:

☐ N/A ☐ ANY TYPE ☑ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. RANK: 1 ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

| | | | |
|---|---|---|---|
| BURIED CABLES, LANDFILLS, STUMPHOLES | ○ YES ◉ NO | GRADING/SOIL REMOVAL PERFORMED | ○ YES ◉ NO |
| EXISTING WASTEWATER (SEPTIC) SYSTEMS | ○ YES ◉ NO | JURISDICTIONAL WETLANDS | ○ YES ◉ NO |
| WELLS, SPRINGS, OR WATER LINES | ○ YES ◉ NO | APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY | ○ YES ◉ NO |
| EASEMENTS OR RIGHT-OF-WAYS | ◉ YES ○ NO | WASTEWATER OTHER THAN DOMESTIC SEWAGE | ○ YES ◉ NO |
| CHEMICAL/PETROLEUM STORAGE TANKS | ○ YES ◉ NO | KNOWN UNDERGROUND CONTAMINATION | ○ YES ◉ NO |
| WASTE STORAGE | ○ YES ◉ NO | GROUNDWATER USE RESTRICTIONS/VARIANCES | ○ YES ◉ NO |

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____ ☑ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 3/6/15 ☐ N/A

12. PROPERTY OWNER:

NAME: Carlo Lokuan
ADDRESS: 11780 SW 18 St. Apt. 329
CITY: Miami
STATE: FL ZIP: 33175
WORK PHONE: (305) 710-5909
MOBILE PHONE: (305) 710-5909
FAX: _____
E-MAIL: _____

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

NAME: Jacob Mock (Buyer)
ADDRESS: 1815 Piedmont Hills Place Apt 509
CITY: Charlotte
STATE: NC ZIP: 28217
WORK PHONE: (707) 357-5587
MOBILE PHONE: (336) 239-6606
FAX: _____
E-MAIL: jacob.mock1@gmail.com



MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

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If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

JBM (Initial here for septic system applications)

**15. WELL PERMIT APPLICATION:**

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

JBM (initial here for well applications)

**16. APPLICATION SIGNATURE SECTION:**

**ONLY COMPLETE APPLICATIONS WILL BE PROCESSED.** A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Property Owner's or Owner's Legal Representative Signature

2/22/2015
Date

*OFFICE USE ONLY*

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ *UN-SCALED SITE PLAN SUBMITTED*

SEPTIC APPLICATION FEE RECEIVED: $ 250.00 DATE FEE RECEIVED: 2/23/15

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: BA

GWS FILE NUMBER ASSIGNED: 91196

APPLICATION ID NUMBER ASSIGNED: 7310

COMMENTS:



MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

File #: _____

## PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 5944 Mountain Point Lane

Tax Parcel #: 02325254

Subdivision Name: Mountain Point Estates

Lot #: 6

Please See Survey on Next Page

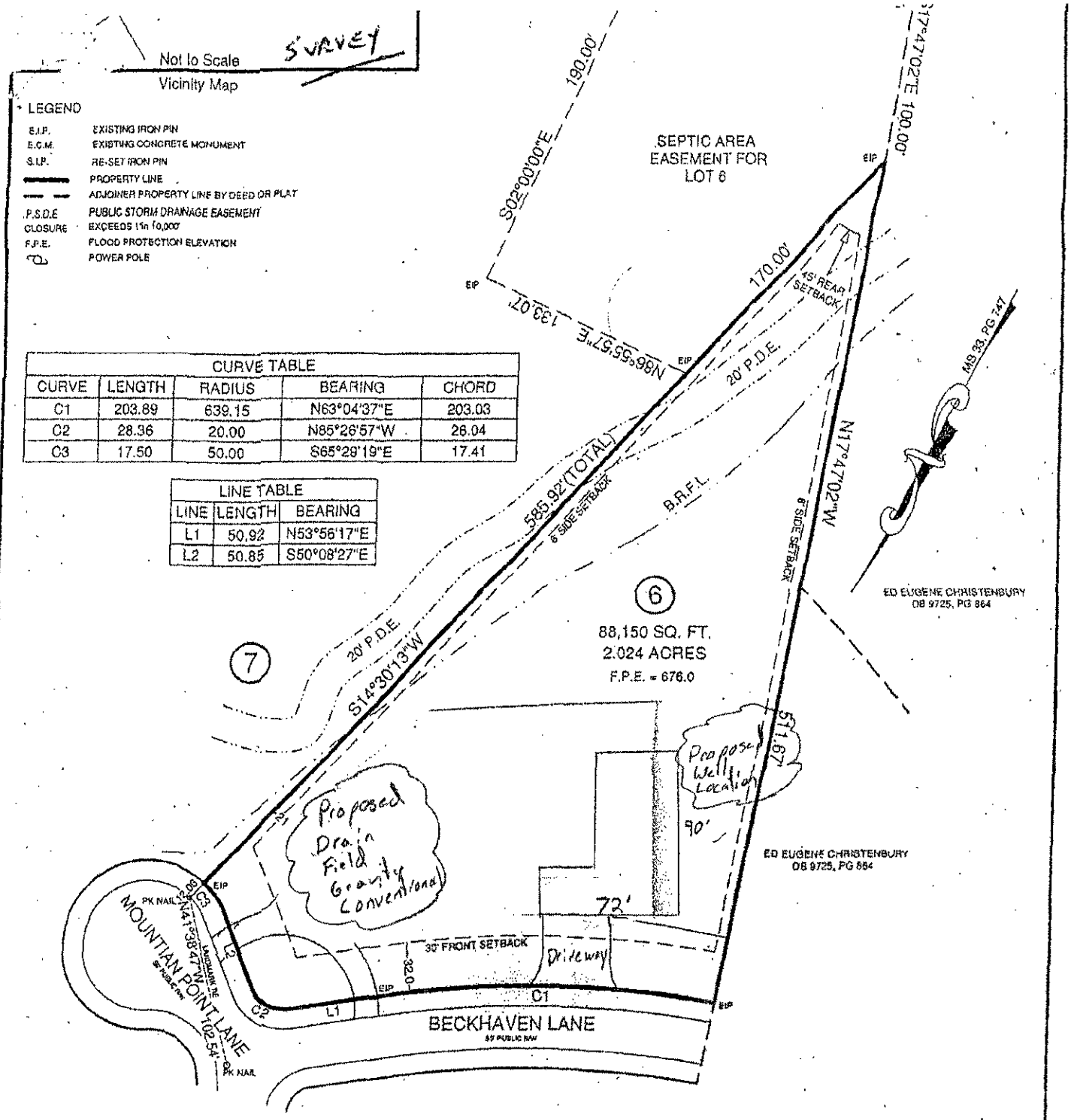
Property Owner's or Owner's Legal Representative Signature

2/22/2015
Date



MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10




CURVE TABLE

| CURVE | LENGTH | RADIUS | BEARING | CHORD |
|---|---|---|---|---|
| C1 | 203.89 | 639.15 | N63°04'37"E | 203.03 |
| C2 | 28.36 | 20.00 | N85°26'57"W | 26.04 |
| C3 | 17.50 | 50.00 | S65°29'19"E | 17.41 |

LINE TABLE

| LINE | LENGTH | BEARING |
|---|---|---|
| L1 | 50.92 | N53°56'17"E |
| L2 | 50.85 | S50°08'27"E |

# Plot Plan SURVEY

OF

Lot 6, Mountain Point Estates, Map 1

Long Creek Twsp., Mecklenburg County, N.C.

SCALE 1"= 80'

THE PROPERTY OF Dr. Agunabi

MAP RECORDED IN BOOK 33 AT PAGE 747 DEED RECORDED IN BOOK _____ PAGE _____

Drawn By:BDH

FILE:C:\LAND PROJECTS 3\Meck County\DWG\Mountain Point Estates Lot 6.DWG

**Modified Plot Plan**
**Residential T & J Panel Septic System**
**For**
**Subsurface Wastewater Disposal**
**Lot 6 Mountain View Estates**

MCHD File # 3983B Active Permit # 30001264

The approved system on file was designed by:
Toney C. Jacobs & Associates, Inc.
168 Broadbill Drive
Mooresville, NC 28117
August 3, 2000

Modified Plot Plan and System Design by:
Jacob B. Mock, P.E.

April 14, 2015

**GWS Septic System Design Review**

| GWS File #: 3983B | Approved | Disapproved |
|---|---|---|
| Design Review: | ☑ | ☐ |
| Field Review: | ☑ | ☐ |

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

NORTH CAROLINA PROFESSIONAL SEAL 03934 ENGINEER JACOB B. MOCK 4/21/2015

Background and Summary

5944 Mountain Point Lane was originally evaluated by Bill Marlin of MCHD in July of 1999 and found to be unsuitable. Toney C. Jacobs & Associates, Inc. performed a soil/ site evaluation on July 17, 2000. Jacobs designed a system around two subfields at 0.3 gpd/ft$^2$. The subfields were above the proposed house location and therefore included a pump system. This system calls for 300' of T & J Panels and a 100% repair on an easement on Lot 7.

The modified plot plan shows a house location that can gravity flow to the approved subfields. I recommend maintaining the subfield design specifications already approved by MCHD. A proportional flow divider will be installed to equally distribute to two subfields. A supply manifold will be installed for each subfield. The Jacobs design called for 2 lines of 75' T & J Panel for subfield A. That will be changed to 3 lines of 50' T & J Panel.

Ownership of the Lot 6 includes an easement on Lot 7 for the 100% repair area. The repair will be a T & J Panel system installed to the specifications below. The repair area is noted on the site layout. A pump tank with associated pump will need to be installed at the time of repair.

Plans and Specs for System Components

Septic Tack

1. Tank to receive waste water directly from house.
2. Tank shall be water tight, structurally sound and not subject to corrosion or decay.
3. Must be a two compartment tank
4. Effluent to from two compartment tank to gravity flow through a Sate approved filter.

Pipe and Fittings

1. All pipes and fitting should be SCH 40 PVC
2. All joints must be sealed with appropriate PVC solvent cement.
3. Lateral lines to be 1 1/4" SCH 40 PVC through T & J Panels
4. Minimum 12" cover over all supply lines.

Construction Installation

Site Preparation

1. Protect subfield location from heavy equipment.
2. Remove brush and small trees, but do not grade.

Tank Installation

1. Two-compartment 1500 gallon tank installed
2. Install filter and proportional flow divider



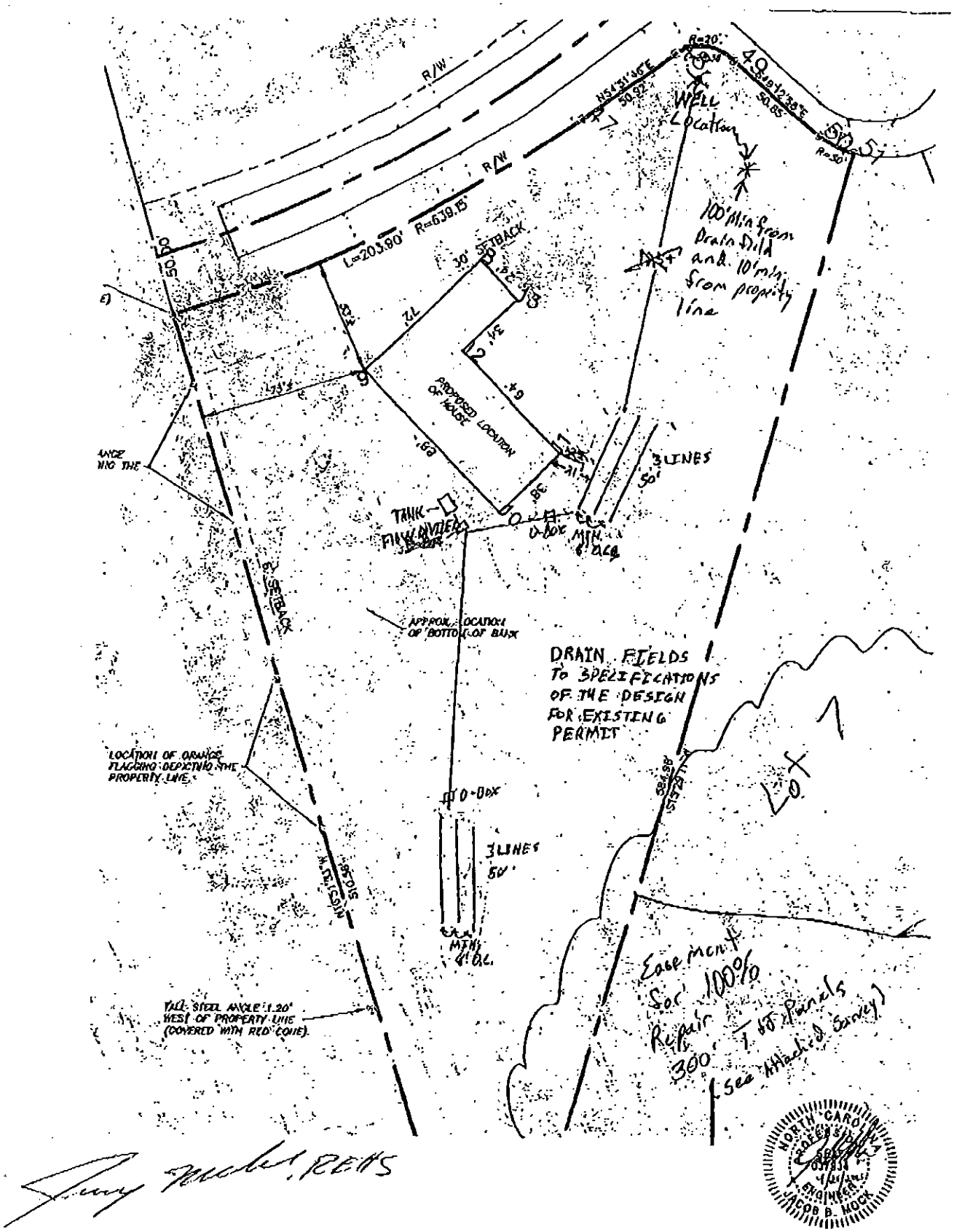
T & J Lateral Lines

1. Install per manufacturers' guidelines.
2. Trenches shall be 24" wide and a minimum 8' on center and level from end to end.

Design Specifications

| | | |
|---|---|---|
| Daily Design Flow | 480 gpd. | |
| Septic Tank Size | 1500 gal. (2 Compartment) | |
| Effluent Loading Rate | 0.3 gpd/ft$^2$ | |
| | Subfield A | Subfield B |
| Supply Pipe 2" SCH 40 PVC | 20' | 125' |




R/W
R/W
L=205.80'
R=639.15'
30' SETBACK
WELL Location
100' Min from Drain Field and 10' min from property line
PROPOSED LOCATION OF HOUSE
TANK
FILL RISER
D-BOX MIN. 0.6
3 LINES 50'
APPROX. LOCATION OF BOTTOM OF BANK
DRAIN FIELDS TO SPECIFICATIONS OF THE DESIGN FOR EXISTING PERMIT
LOCATION OF ORANGE FLAGGING DEPICTING THE PROPERTY LINE
D-BOX
3 LINES 50'
MIN. 0.6
IRON PIPE FOUND
IRON PIPE FOUND
Easement for 100% Repair 300' ± 8ft Panels (see attached Survey)
LOT 1
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040181 JACOB B. MOCK

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

# IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30007418 GWS File #: 3983B Tax Parcel #: 023-252-54

- This 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.

I. This Improvement Permit Shall: Expire in Five (5) Years Expiration Date (if Applicable): 4/22/2020
Type of Installation: Residential - Modified Plot Plan Lot Number: 6
Structure Type: HOUSE Size ($ft^2$): 2600 # Bedrooms: 4 # Occupants: 2
Building Foundation: Basement With Plumbing Water Supply: Private Well

II. Initial System Type: PPBPS (gravity) System Classification: IIIe

Initial System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 480 | LTAR (gpd/$ft^2$): | 0.3 | Septic Tank Size (gal): | 1500 | Pump Tank Size (gal): | N/A |
| Trench Width (ft): | 2 | Trench Spacing (ft): | 6 | Absorption Area ($ft^2$): | 634 | Total Trench Length (ft): | 267 |
| Maximum Trench Depth (in): | 30 | Depth of Media (in): | N/A | Distribution Device: | Distribution Box | | |

III. Repair System Type: PPBPS (pressurized) System Classification: IVa

Repair System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 480 | LTAR (gpd/$ft^2$): | 0.3 | Septic Tank Size (gal): | 1500 | Pump Tank Size (gal): | 1000 |
| Trench Width (ft): | 2 | Trench Spacing (ft): | 6 | Absorption Area ($ft^2$): | 800 | Total Trench Length (ft): | 400 |
| Maximum Trench Depth (in): | 30 | Depth of Media (in): | N/A | Distribution Device: | Manifold (LPP Distr | | |

IV. Permit Conditions/Comments:

*(Please See the Following Page for Permit Conditions.)*

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a *Pre-Construction meeting* has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michelone
Signature:
Date Issued: 4/22/2015

Owner/Legal Agent: J. B. Mock
Signature 4/30/2015

# MECKLENBURG COUNTY
## Health Department

E. Winfers Mabry, MD
Director

(704) 432-3199

Addendum to Application for
New Well or Septic System Installation
Abandonment or Repair of Existing Well or Septic System

*Your signature below confirms the following:*

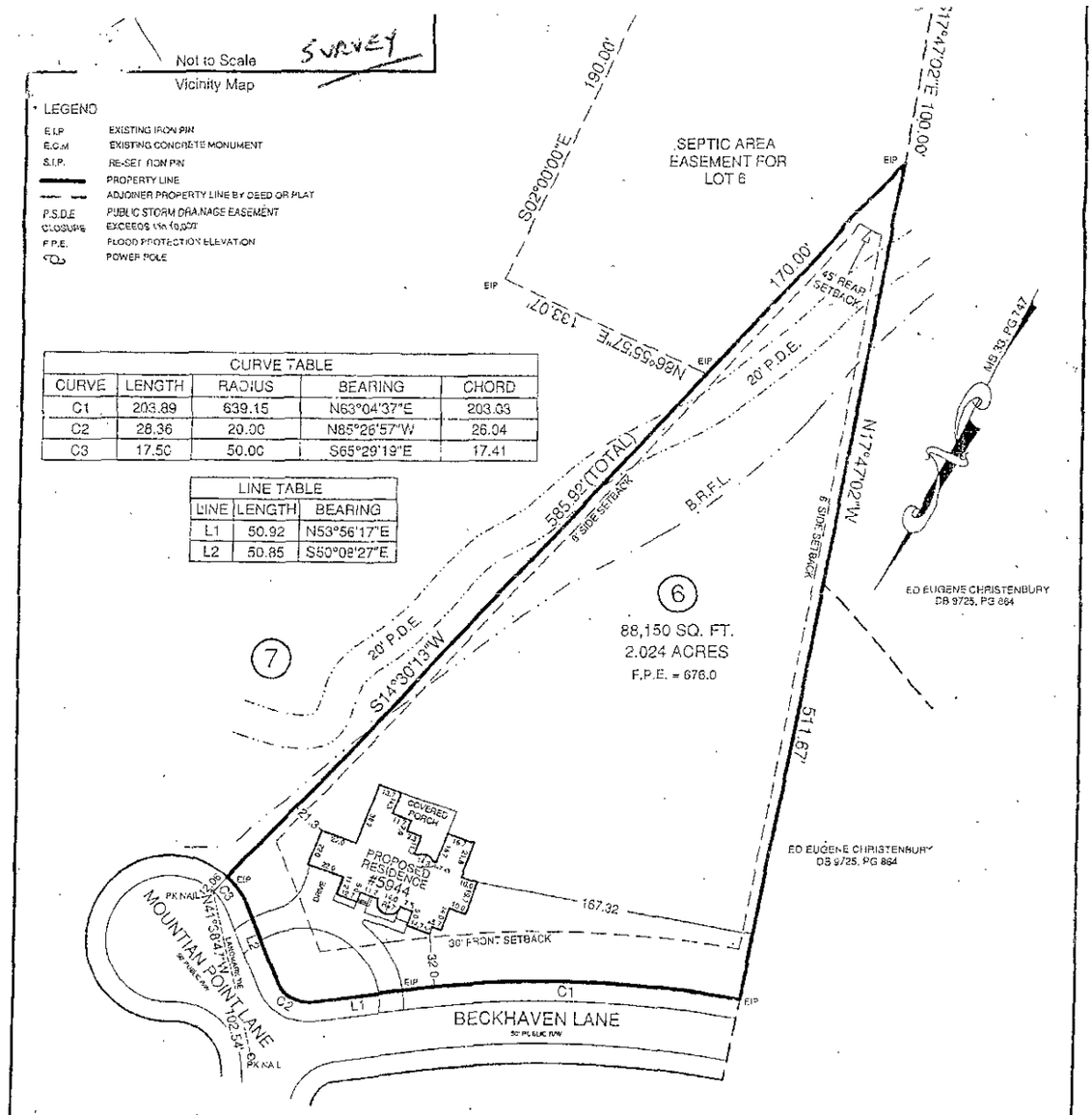
1. The information on the application is true, complete and accurate.
2. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliances with applicable laws and rules.
3. I acknowledge that Jacob B. Mock is acting as my legal representative (agent) in the submittal of the application for a water supply well or septic permit located at

5944 Mountain Point Ln. Charlotte, NC 28216
Number Street Town
(Or Parcel Number)

CARLOS LOKUAN
Property Owner (print name)

Property Owner (signature)

02-18-15
Date




Plot Plan SURVEY

OF

Lot 6, Mountain Point Estates, Map 1

Long Creek Twsp., Mecklenburg County, N.C.

SCALE 1"= 80'

THE PROPERTY OF Dr. Agunsbi

MAP RECORDED IN BOOK 33 AT PAGE 747 DEED RECORDED IN BOOK _____ PAGE _____

Drawn By:BDH

FILE:C:\LAND PROJECTS 3\Meck County\DWG\Mountain Point Estates Lot 6.DWG

# SITE / SOIL EVALUATION

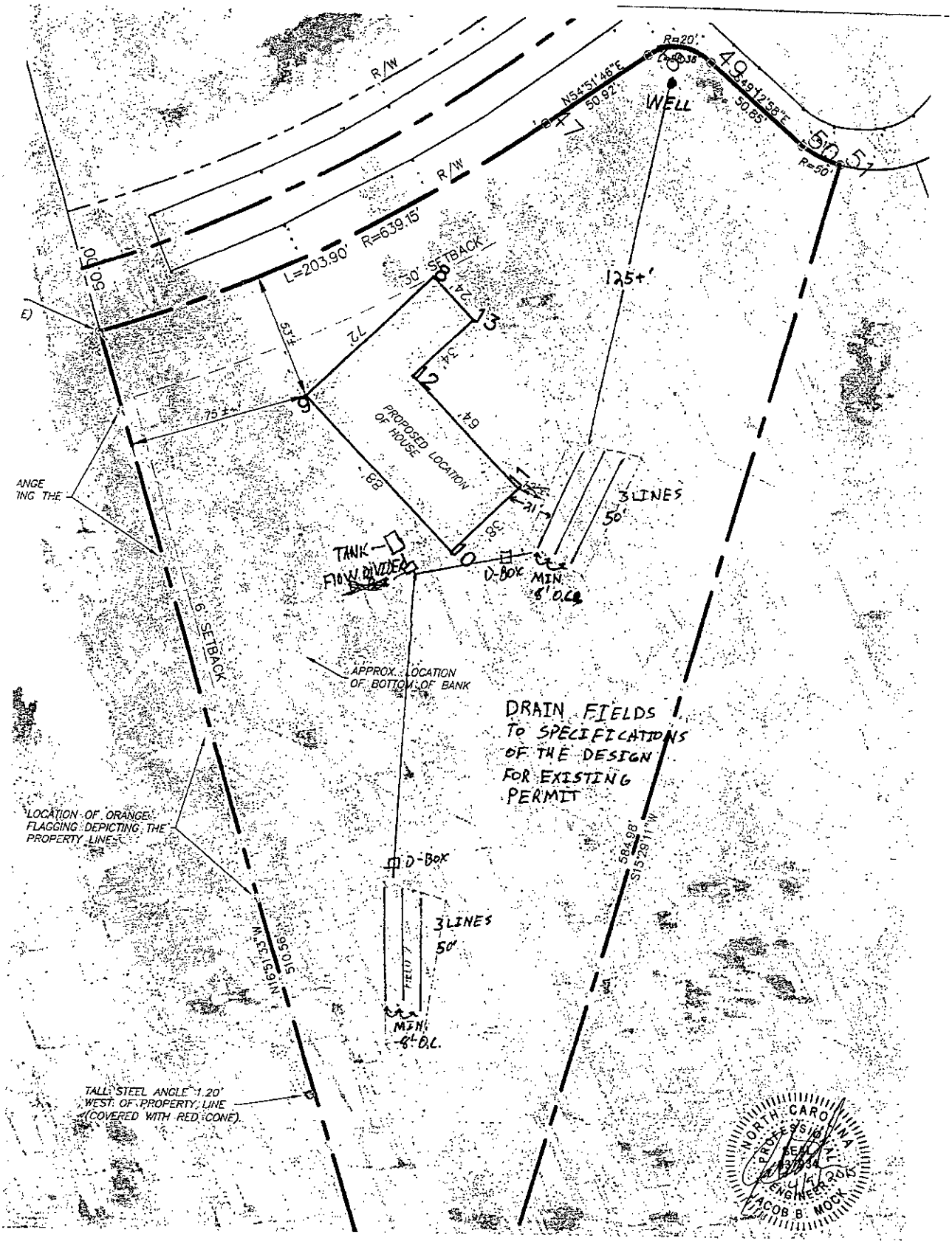
JOB: Mt. Pt. Estates Lot 6 PHONE: _____ DATE: _____

LOCATION: _____ PIN: _____ COUNTY: _____ PROPERTY SIZE: _____

PROPOSED FACILITY: _____ WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut_____

WEATHER: _____ ANTECEDENT MOISTURE: _____ SURFACE WATER: _____

| FACTORS | PROFILE 2 | PROFILE 3 | PROFILE 9 | PROFILE 10 |
|---|---|---|---|---|
| LANDSCAPE POSITION | | | | |
| HORIZON DEPTH | 0-11 | 0-22 | 0-6 | 0-6 |
| Color - Munsell | red br | red | br | br |
| Texture | scl | c-cl | sl-scl | scl |
| Structure | m-f-sbk | | m | m-f |
| Consistence | | m-f-sbk f-fi-ss | fr | fr |
| | | | | |
| | | | | |
| Boundary | | | | |


R/W
R/W
L=203.90'
R=639.15'
50' SETBACK
WELL
R=20'
N54°31'46"E
50.92'
S4°31'58"E
50.85'
R=50'
125+'
PROPOSED LOCATION OF HOUSE
TANK
FLOW DIVIDER
D-BOX
MIN. 8' O.C.
3 LINES
50'
APPROX. LOCATION OF BOTTOM OF BANK
DRAIN FIELDS TO SPECIFICATIONS OF THE DESIGN FOR EXISTING PERMIT
6' SETBACK
LOCATION OF ORANGE FLAGGING DEPICTING THE PROPERTY LINE
D-BOX
3 LINES
50'
MIN. 8' O.C.
S15°28'11"W
58.98'
N16°53'33"W
105.55'
TALL STEEL ANGLE 1.20' WEST OF PROPERTY LINE (COVERED WITH RED CONE)
NORTH CAROLINA
PROFESSIONAL
SEAL
ENGINEER
JACOB B. MOCK

COPY

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 # 39838
PARCEL # Portion of 022-252-30

The undersigned, Fletcher G. Keith and wife Peggy Keith, owner of property located at being known as Lot 6 of Mountain Point Estates, (the "site") and described in an instrument recorded in Map Book 33 at Page 747, 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.

FILE COPY
DATE 8/2/2000 BOOK 11442 TIME 4:42 PAGE 478 REC FEE 10.00

*This instrument was prepared by:* Griffin & Brunson, LLP
*Mail after recording to:* Griffin & Brunson, LLP, 301 S. McDowell Street, Suite 907
Charlotte, NC 28204



12

- 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 __August_____, ~~2000~~ 2000

_____ (SEAL)
(Corporate Name) Fletcher G. Keith

_____ (SEAL)
Peggy Keith

By: _____ _____ (SEAL)

_____ President _____ (SEAL)

ATTEST:

_____
_____ Secretary

(Corporate Seal)

STATE OF NORTH CAROLINA
COUNTY OF MECKLENBURG

I, SUSAN SPENCE, a Notary Public for said County and State, do hereby certify that Fletcher G. Keith and Peggy Keith personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this 29 day of August, 1999 2000

Susan Spence
Notary Public

My Commission Expires:
3/9/03

# MECKLENBURG COUNTY
## Health Department

**Marcus Plescia, MD, MPH**
**Health Director**

**(704) 336-4700**

April 21, 2015

Jacob Mock
1815 Piedmont Hills Place Apt # 509
Charlotte, NC 28217

RE: **Notice of Intent to Revoke Improvement Permit**

Dear Mr. Mock:

The Mecklenburg County Health Department inspected the site for the on-site wastewater system located at **5944 Mt. Point Lane**, File # 3983B for compliance with the Laws (Article 11 of Chapter 130A of the North Carolina General Statutes), Rules (15A NCAC 18A .1900 et seq.). As a result of this inspection, the Department has determined the following violations:

> The approved Improvement Permit on file is designed for a pump system with the house located at the front of the lot. The new property owner does not like the house location nor a pump system. Jacob B. Mock, P.E. was able to design a gravity fed panel block system by moving the house up the hill to the back of the lot. The lot can only have one valid Improvement Permit.

This is to notify you that based on these violations, the Department intends to revoke your Improvement Permit 30 days from the date of this notice.

If the health department determines that all of the violations have been corrected before thirty (30) days expire, the revocation will not go into effect. If the permit is revoked, you must apply for a new Improvement Permit and meet the current laws and rules necessary to obtain a new permit.

You have a right to an informal review of this decision. You may request an informal review by the environmental health supervisor at the local health department. You may also request an informal review by the N. C. Department of Health and Human Services Regional Soil Scientist. A request for informal review must be made in writing to the local health department.

You have the right to a formal appeal of this decision by filing a petition for a contested case hearing with the Office of Administration Hearings, 6714 Mail Service Center, Raleigh, NC, 27699-6714. To obtain a petition form (H-06), you may write the Office of Administrative Hearings, call that office at (919) 431-3000 or get a copy of the petition form from their web site at www.ncoah.com/forms.html. The petition for a contested case hearing must be filed in accordance with the provisions of North Carolina General Statutes 130A-24, 150B-23, and all other applicable provisions of Chapter 150B. N.C. General Statute 130A-335(g) provides that your hearing would be held in the county where your property is located.

# MECKLENBURG COUNTY
## Health Department

**Marcus Plescia, MD, MPH**
**Health Director**

**(704) 336-4700**

If you wish to pursue a formal appeal, you must file the petition form with the Office of Administrative Hearings **WITHIN 30 DAYS OF THE DATE OF THIS LETTER.** The date of this letter is April 21, 2015. Meeting the 30 day deadline is critical to your right to a formal appeal. Beginning a formal appeal within 30 days will not interfere with any informal review that you may request.

If you file a petition for a contested case with the Office of Administrative Hearings, you are required by law (NCGS 150B-23) to serve a copy of your petition on the Office of General Counsel, NC Department of Health and Human Services, 2001 Mail Service Center, Raleigh, NC 27699-2001.

Do not serve the petition on your local health department. Sending a copy of your petition to the local health department will not satisfy the legal requirement in NC General Statute 150B-23 that you send a copy to the Office of General Counsel, 2001 Mail Service Center,, NC Department of Health and Human Services.

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

Sincerely,

Jeremy Michelone, R.E.H.S.
Environmental Specialist
(704)336-5572

# MECKLENBURG COUNTY
## Health Department

Marcus Plescia, MD, MPH
Health Director

(704) 336-4700

**Voluntary Relinquishment of Administrative Appeal Rights**
**(Completion of Form by Property Owner)**

4/21/2015 (Date)

Owner: Jacob B. Mock
Address: 1815 Piedmont Hills Place Apt 509
Charlotte NC 28217

Subject: Voluntary Relinquishment of Administrative Appeal Rights

(specifyPermit ID/owner's name/property location/site legal description):
MCHD File # 39838 Active Permit # 30001264 / Jacob B. Mock
5944 Mountain Point Lane Charlotte NC 28216
Tax Parcel # 023-252-54 Subdivision: Mountain Point Estates

I, Jacob Boyd Mock, voluntarily relinquish my rights to pursue a formal appeal through the Office of
(print full name)

Administrative Hearings pursuant to NC General Statute 130A-24 and 150B-23 and all other applicable provisions of Chapter 150B for the above referenced permit in order for the authorized agent/local health department to issue the applicable permit (new IP and/or CA) for the site. I understand by completing this form the previous permit issued on August 3, 2005 for a system
(date)
Residential Low Pressure T+J Panel Septic System for Subsurface Wastewater Disposal
(system name)

for the site will be "revoked" immediately by the authorized agent/local health department.

Signature of Property Owner

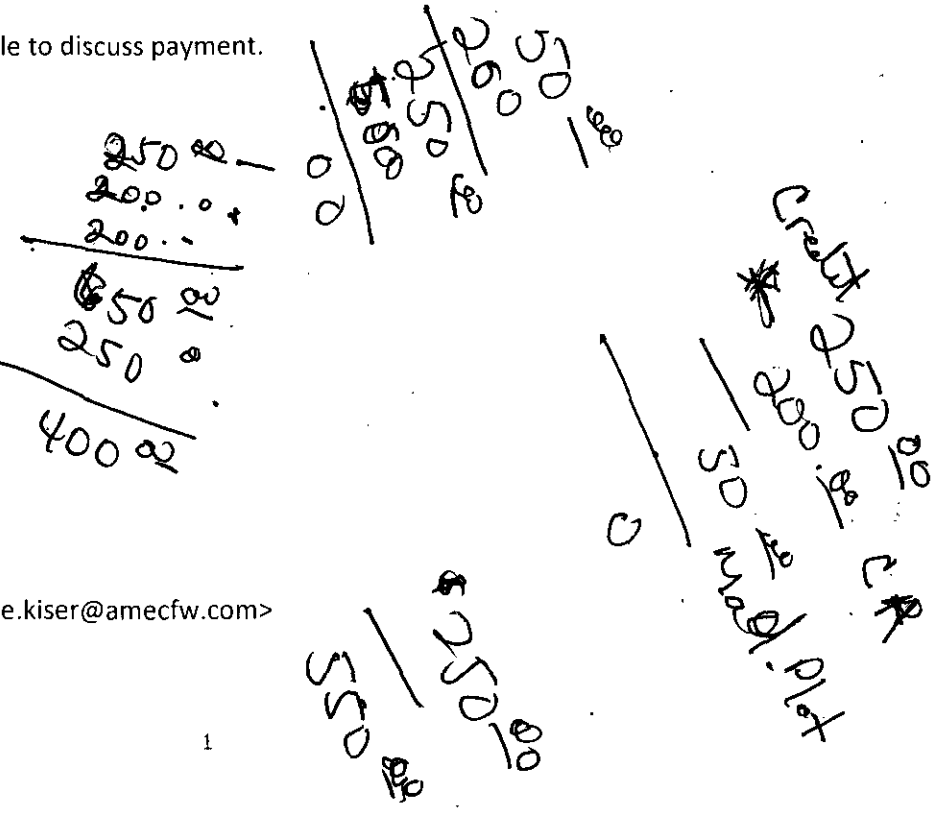
## Atkinson, Brenda

**From:** Michelone, Jeremy
**Sent:** Wednesday, April 15, 2015 5:01 PM
**To:** Mock, Jacob
**Cc:** Atkinson, Brenda; Michael, Jeremy
**Subject:** Re: Message from "RNP002673293916"

That is all correct. The file ( both well and septic) is on my desk.

Sent from my iPhone

> On Apr 15, 2015, at 4:08 PM, Mock, Jacob <jacob.mock@amecfw.com> wrote:
>
> Brenda,
>
> Per my conversation with Jeremy yesterday, since a soil evaluation had already been completed for my lot at 5944 Mountain Point Lane (which I had paid for the new permit ($250), the only thing that I would be responsible for would be the Modified Plot Plan ($100), a septic construction permit ($200), a certificate of occupancy permit or septic completion permit ($200), and the well permit ($550).
>
> As I had already paid the $250 for the new permit, which was not applicable as there was still an active permit for the lot and would serve as a credit, the only thing I would be responsible would be for is:
>
> Modified Plot Permit - $100
> Construction Permit - $200
> Certificate of Occupancy Permit - $200 Well Permit - $550 Credit for
> New Septic Permit – ($250)
>
> Total: $800
>
> Please call me back when you are available to discuss payment.
>
> Thanks again for all of your help.
>
> Best regards,
>
> Jacob
>
> Jacob B. Mock, P.E.
> Associate Engineer / Project Manager
> Amec Foster Wheeler
>
> 2801 Yorkmont Road, Suite 100
> Charlotte, North Carolina 28208
> D 704-357-5587
> M 336-239-6606
> E jacob.mock@amecfw.com<mailto:steve.kiser@amecfw.com>
>
>



>
> From: Jacob Mock [mailto:jacob.mock1@gmail.com]
> Sent: Wednesday, April 15, 2015 12:47 PM
> To: Michelone, Jeremy
> Cc: Sean Rice; Sean K.Langston; Mock, Jacob
> Subject: Re: Message from "RNP002673293916"
>
> Jeremy,
>
> Please see the attached signed and sealed specifications for the septic system as well as the application for modified plot plan in accordance with our discussion yesterday.
>
> I have also attached a larger color PDF of the site plan and another larger copy of the site plan with my PE seal affixed.
>
> I will be calling the Mecklenburg County Department of Environmental Health later this afternoon to finalize payment for all three septic permits and the well permit per your request yesterday. Per our discussion the final balance for these permits was $800.00 I will reference our conversation with whomever I speak per your request as well to fill them in on the fees that were paid and how much I owe.
>
> Additionally, I have attached my original permit documents I submitted to Linda back in February for your records as well.
>
> I will plan on being at your office on Monday with my house plans to confirm the number of bedrooms (4) and finalize this portion of the septic/well permitting process. Please let me know what time works best for you.
>
> Please advise of any questions or concerns you may have.
>
> I look forward to meeting you on Monday and moving this effort forward.
>
> Thank you and best regards,
>
> Jacob
>
> Jacob B. Mock, PE
> jacob.mock1@gmail.com<mailto:jacob.mock1@gmail.com>
> (336) 239-6606
>
>
> [cid:115041521064000827@uk-mta-11.uk.mimecast.lan]
>
> This message is the property of Amec Foster Wheeler plc and/or its subsidiaries and/or affiliates and is intended only for the named recipient(s). Its contents (including any attachments) may be confidential, legally privileged or otherwise protected from disclosure by law. Unauthorised use, copying, distribution or disclosure of any of it may be unlawful and is strictly prohibited. We assume no responsibility to persons other than the intended named recipient(s) and do not accept liability for any errors or omissions which are a result of email transmission. If you have received this message in error, please notify us immediately by reply email to the sender and confirm that the original message and any attachments and copies have been destroyed and deleted from your system. This disclaimer applies to any and all messages originating from us and set out above. For Canada and the United States: If you believe this is an unsolicited email and do not wish to receive future commercial electronic messages from us, please click unsubscribe@amecfw.com<mailto:unsubscribe@amecfw.com?Subject=Unsubscribe> and include "Unsubscribe" in the subject line.
>

> Please click http://amecfw.com/email-disclaimer for notices and company information in relation to emails originating in the UK, Italy or France.
> <115041521064001327>
> <Jacob Mock Septic Permit Sketch 4-9-2015 037934.pdf> <Jacob Mock
> Septic Permit Sketch 4-9-2015.pdf> <Spetic Permit Application - Jacob
> Mock 2-19-2015.pdf> <Jacob Mock Modified Plot Plan Septic and Well
> Application 4152015.pdf> <Mecklenburg County Septic & Well Application
> - Jacob Mock 02-22-2015.pdf>

*MECKLENBURG COUNTY*
*LAND USE AND ENVIRONMENTAL SERVICES*
*Payment Receipt*

**Receipt Information**

| | | | |
|---|---|---|---|
| **Date:** | 04/16/15 | **Amount:** | 200.00 |
| **Receipt #:** | 94355 | **Tendered:** | 200.00 |
| **Check / Auth #:** | MC 24143Z | **Returned:** | 0.00 |
| **Received By:** | WALKEVA | | |

**Account Information**

**Account #:** 200000
**Contractor:** MOCK, JACOB
**Attn:**
**Address:** 387 T.S. PAYNE ROAD
**Address:**
**City/State/Zip:** LEXINGTON, NC 27295

| Item | Description | Permit# | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 0703 | Septic Operational Permit<br>5944 MOUNTAIN POINT LANE | | 1 | 200.00 | 200.00 |

----------Outstanding Balances----------

| Month-To-Date | Prior Month | 30 Days | 60 Days | 90 Days | Balance |
|---|---|---|---|---|---|

*MECKLENBURG COUNTY*
*LAND USE AND ENVIRONMENTAL SERVICES*
*Payment Receipt*

Credit Receipt

**Receipt Information**

**Date:** 02/23/15
**Receipt #:** 93133
**Check / Auth #:** MC 70956Z
**Received By:** SADERLW

**Amount:** 250.00
**Tendered:** 250.00
**Returned:** 0.00

**Account Information**

**Account #:** 200000
**Contractor:** MOCK JACOB
**Attn:**
**Address:** 1815 PIEDMONT HILLS PLACE, APT 509
**Address:**
**City/State/Zip:** CHARLOTTE, NC 28217

| Item | Description | Permit# | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 0701 | Improvment Permit App-Residen<br>5944 MOUNTAIN POINT LN | | 1 | 250.00 | 250.00 |

Credit $250.00
- 200.00 Authorization for Waste Water System
Balance $50.00
- 50.00 Modified Plat Plan Application
0

**Outstanding Balances**

| Month-To-Date | Prior Month | 30 Days | 60 Days | 90 Days | Balance |
|---|---|---|---|---|---|
| 10.00 | | | | | |

*MECKLENBURG COUNTY*
*LAND USE AND ENVIRONMENTAL SERVICES*
*Payment Receipt*

**Receipt Information**

| | | | |
|---|---|---|---|
| **Date:** | 04/16/15 | **Amount:** | 50.00 |
| **Receipt #:** | 94354 | **Tendered:** | 50.00 |
| **Check / Auth #:** | MC 24143Z | **Returned:** | 0.00 |
| **Received By:** | WALKEVA | | |

**Account Information**

**Account #:** 200000
**Contractor:** MOCK, JACOB
**Attn:**
**Address:** 387 T.S. PAYNE ROAD
**Address:**
**City/State/Zip:** LEXINGTON, NC 27295

| Item | Description | Permit# | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 0704 | Change in Plot Plan<br>CREDIT OF $50.00 FROM SOIL EVAL. 5944 MT. POINT LN | | 1 | 50.00 | 50.00 |

Credit of $250.00 from Receipt 93133 on 2/23/15. Entered by Linda Sader for new system (Septic). Soil Evaluation Credit. The first soil Evaluation was still valid.

**Outstanding Balances**

| Month-To-Date | Prior Month | 30 Days | 60 Days | 90 Days | Balance |
|---|---|---|---|---|---|

*MECKLENBURG COUNTY*
*LAND USE AND ENVIRONMENTAL SERVICES*
*Payment Receipt*

**Receipt Information**

| | | | |
|---|---|---|---|
| **Date:** | 02/23/15 | **Amount:** | 250.00 |
| **Receipt #:** | 93133 | **Tendered:** | 250.00 |
| **Check / Auth #:** | MC 70956Z | **Returned:** | 0.00 |
| **Received By:** | SADERLW | | |

**Account Information**

**Account #:** 200000
**Contractor:** MOCK JACOB
**Attn:**
**Address:** 1815 PIEDMONT HILLS PLACE, APT 509
**Address:**
**City/State/Zip:** CHARLOTTE, NC 28217

| Item | Description | Permit# | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 0701 | Improvment Permit App-Residen<br>5944 MOUNTAIN POINT LN | | 1 | 250.00 | 250.00 |

**Outstanding Balances**

| Month-To-Date | Prior Month | 30 Days | 60 Days | 90 Days | Balance |
|---|---|---|---|---|---|
| 10.00 | | | | | |

# Payment Receipt

**Mecklenburg County POS**

Environmental Health
700 N. Tryon Street
Charlotte, NC 28202
Phone: 704-336-5100

Enter Account # or Customer Name Here: JACOB MOCK

**Bill To:**

JACOB MOCK
387 T.S. PAYNE ROAD

Lexington, NC 27295

**Single Payment**

Transaction Date: 04/16/2015 12:24 PM Pacific Time
Pay Method: [redacted] **********4374
Approval #: 24143Z
Trace Number: eec733f4-ce98-47bb-95f4-0b7bf7d3e856
Amount: $800.00

Payment Amount: $800.00

**Total: $800.00**

Thank you for your payment.

COPY

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

SEPTIC TANK DRAIN FIELD EASEMENT AGREEMENT

FILE COPY

FILED FOR REGISTRATION DATE 8/31/2000 TIME 2:42 DOC # 2000128416
BOOK 11542 PAGE 0002 REC FEE 20.00
STAMPS 0 CHARLOTTE-MECKLENBURG COUNTY, N.C.

This EASEMENT made this ____ day of August, 2000, 19__, by and between

| GRANTOR | GRANTEE |
|---|---|
| Fletcher G. Keith and wife, Peggy Keith | Fletcher G. Keith and wife, Peggy G. Keith<br>4016 Triangle Drive<br>Charlotte, NC 28208 |

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g., corporation or partnership.

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 an easement as hereinafter described, to run with the land, upon that certain lot or parcel of land owned by Grantor and located in the City of N/A, Long Creek Township, Mecklenburg County, North Carolina, and more particularly described as follows:

Part of Mecklenburg Tax Parcel No. 023-252-33 as shown on a page of the County Tax Map attached hereto as Exhibit A

Lot 7 Block N/A of Mountain Point Estates recorded in Map Book 33 Page 747 (if applicable) of the Mecklenburg County, North Carolina Public Registry.

See a portion of the plat attached hereto as Exhibit B and the parcel shown thereon identified with Grantor's name for the legal description of Grantor's parcel and of the Septic Tank Drain Field Easement Area located thereon, said parcel labeled thereon and hereinafter referred to as the "Easement Parcel."

*This instrument was prepared by:* Griffin & Brunson, LLP

*Mail after recording to:* Griffin & Brunson, LLP, 301 South McDowell Street, Suite 907, Charlotte, NC 28204

Grantor hereby imposes said easement for the benefit of Grantee as the present owner and for the benefit of future owners of the following lot or parcel of land, situated in the City of N/A, Long Creek Township, Mecklenburg County, North Carolina, and more particularly described as follows:

Mecklenburg Tax Parcel No. 023-252-33 as shown on a page of the County Tax Map attached hereto as Exhibit A

Lot 6 Block N/A of Mountain Point Estates recorded in Map Book 33 Page 747 (if applicable) of the Mecklenburg County, North Carolina Public Registry.

See the plat attached hereto as Exhibit B and the parcel shown thereon identified with Grantee's name for the legal description of Grantee's parcel, said parcel labeled thereon and hereinafter referred to as the "Benefitted Parcel."

Said Easement shall enable the Grantee to place, if, as and when needed, such need to be determined by the Grantee in his sole discretion, a septic tank and drain field or portions thereof, upon the Septic Tank Drain Field Easement Area on the Easement Parcel and to inspect, maintain, repair and replace the components of said septic tank and drain field at any time and from time to time. If the Easement Area also includes a connector strip for ingress and egress, Grantee shall have the right to use said connector strip for access as needed. *This Easement may not be altered, amended or cancelled without the express written permission of the Mecklenburg County Health Department, which written permission must be part of any document recorded to alter, amend or cancel this Easement.* This Easement shall automatically expire, however, should Grantee ever hook up the structure located or to be located on the Benefitted Parcel to a public or community sanitary sewage system but shall otherwise be perpetual.

Grantor acknowledges that the Septic Tank Drain Field Easement Area cannot be used and will not be used for any of the following activities or in any of the following ways:

- Grading or filling
- Parking or driving heavy equipment in the area or in any other way compacting the soil in the Area
- Excavating soil from the Area
- Placing footings or foundations or engaging in any other construction activity in the Area
- Placing in-ground or above-ground swimming pools in the Area
- Placing irrigation systems in the Area
- Placing underground utility lines or cables in the Area
- Planting trees or gardens in the Area
- Removing any large trees in the Area unless dead or diseased
- Using the area for the burial of stumps, trash, or any other type of construction material
- Using the Area for gravesites

Diverting the natural flow of water onto the Area by way of drainage ditches or diversion ditches or using the Area to receive water from any gutter or downspout discharges

IN WITNESS WHEREOF, the Grantor and Grantee have hereunto set their hands and seals, or if corporate, have caused this instrument to be signed in their corporate names by their duly authorized officers and their seals to be hereunto affixed by authority of their Boards of Directors, the day and year first above written.

GRANTOR

_____ (SEAL)
(Corporate Name) Fletcher G. Keith

BY: _____
_____ President

_____ (SEAL)
Peggy Keith

ATTEST: _____ (SEAL)

_____ (SEAL)
_____ Secretary (Corporate Seal)

SEAL-STAMP

North Carolina, Mecklenburg County

I, Susan Spence, a Notary Public of the County and State aforesaid, certify that Fletcher G. Keith and Peggy Keith, Grantor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 29 day of August, ~~19~~ 2000.

My Commission Expires: 3/9/03 Susan Spence
(Notary Public)

SEAL-STAMP North Carolina, _____ County

I, _____, a Notary Public of the County and State aforesaid, certify that _____ personally came before me this day and acknowledged that he is _____ Secretary of _____, a corporation, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its _____ President, sealed with its corporate seal and attested by _____ as its _____ Secretary. Witness my hand and official stamp or seal, this ____ day of _____, 19__.

My Commission Expires: _____ _____
Notary Public

**GRANTEE**

_____ (Corporate Name)

Fletcher G. Keith (SEAL)

BY: _____
_____ President

Peggy Keith (SEAL)

ATTEST:

_____ (SEAL)

_____ Secretary (Corporate Seal)

_____ (SEAL)

SEAL-STAMP North Carolina, Mecklenburg County

I, Susan Sorrell, a Notary Public of the County and State aforesaid, certify that Fletcher G. Keith and Peggy Keith, Grantee, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 29 day of August, 2000.

My Commission Expires: 3/9/03 Susan Sorrell
(Notary Public)




5944 MOUNTAIN POINT LN

02325254

1/3/2008

duponbj

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

*MECKLENBURG COUNTY*
*LAND USE AND ENVIRONMENTAL SERVICES*
*Payment Receipt*

**Receipt Information**

| | | | |
|---|---|---|---|
| **Date:** | 08/25/06 | **Amount:** | 150.00 |
| **Receipt #:** | 45702 | **Tendered:** | 150.00 |
| **Check / Auth #:** | CHECK 2308 | **Returned:** | 0.00 |
| **Received By:** | AIDOOJK | | |

**Account Information**

**Account #:** 200000
**Contractor:** MEDINA CONSTUCTION LLC
**Attn:**
**Address:** 1506 WEST MOREHEAD
**Address:**
**City/State/Zip:** CHARLOTTE, NC 28208

| Item | Description | Permit# | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 0734 | Auth for Waste Wtr Sys Constr<br>5944 MOUNTAIN POINT LANE | | 1 | 150.00 | 150.00 |

**Outstanding Balances**

| Month-To-Date | Prior Month | 30 Days | 60 Days | 90 Days | Balance |
|---|---|---|---|---|---|

*MECKLENBURG COUNTY*
*LAND USE AND ENVIRONMENTAL SERVICES*
*Payment Receipt*

**Receipt Information**

| | | | |
|---|---|---|---|
| **Date:** | 08/25/06 | **Amount:** | 150.00 |
| **Receipt #:** | 45703 | **Tendered:** | 150.00 |
| **Check / Auth #:** | CHECK 2308 | **Returned:** | 0.00 |
| **Received By:** | AIDOOJK | | |

**Account Information**

**Account #:** 200000
**Contractor:** MEDINA CONSTRUCTION
**Attn:**
**Address:** 1506 WEST MOREHEAD
**Address:**
**City/State/Zip:** CHARLOTTE, NC 28208

| Item | Description | Permit# | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 0703 | Installation/Final Approval<br>5944 MOUNTAIN POINT LANE | | 1 | 150.00 | 150.00 |

**Outstanding Balances**

| Month-To-Date | Prior Month | 30 Days | 60 Days | 90 Days | Balance |
|---|---|---|---|---|---|

clk 1005 #1264

GWS – RES. APP 07/05

SEPTIC FEE: 200.00
DATE: 8/10/06
CRT [ ] GC

PERMIT APPLICATION FOR A RESIDENTIAL SITE
IMPROVEMENT PERMIT / CONSTRUCTION AUTHORIZATION
FOR ON-SITE WASTEWATER SYSTEM
NEW WELL INSTALLATION OR REPAIR OF EXISTING WELL
MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES

WELL FEE: _____
DATE: _____
CRT [ ]

FILE # 3983 B

SEPTIC / TYPE APPLICATION: ☐ NONE ☒ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFY PLOT PLAN

WELL / TYPE APPLICATION: ☐ NONE ☒ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

JOB LOCATION INFORMATION:

TAX/PARCEL #: 023-252-54
STREET ADDRESS: 5944 MOUNTAIN POINT LANE
CITY: CHARLOTTE
STATE: NC ZIP: 28216
SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #: 6 Mountain Point Estate
TOWNSHIP: Long Creek Township; Meck. Cty, NC

☐ 0-MECKLENBURG ☐ 4-PINEVILLE
☐ 1-CHARLOTTE ☐ 5-MATTHEWS
☐ 2-DAVIDSON ☒ 6-HUNTERSVILLE
☐ 3-CORNELIUS ☐ 7-MINT HILL

BUILDING INFORMATION:

TYPE OF BUILDING:

☐ SINGLE MOBILE HOME (S) ☐ MODULAR HOME (M)
☐ DOUBLE WIDE (D) ☐ MULTIPLE FAMILY (U)
☒ HOUSE (H) ☐ OTHER

HEATED SQUARE FOOTAGE: 6,238 FT²
NUMBER OF BEDROOMS: ~~4~~ CHANGE TO FOUR BEDROOMS
NUMBER OF OCCUPANTS: 4 (KP)

FOUNDATION FOR RESIDENCE:

☒ CONCRETE SLAB ☒ BASEMENT WITH PLUMBING
☐ CRAWLSPACE ☐ BASEMENT WITH NO PLUMBING

IF PLANNING TO EXPAND/ALTER THE EXISTING SYSTEM INDICATE THE FOLLOWING CHANGES:

NUMBER OF BEDROOMS TO BE ADDED: NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE?

old file

WATER SUPPLY:

☐ MUNICIPAL (M) ☐ PUBLIC (C) ☒ PRIVAT ☐ OTHER 'SPRINGS' (O)

PROPOSED USE OF WELL: ☐ N/A ☐ IRRIGATION ☐ OTHER

ARE ANY OF THE FOLLOWING LOCATED ON THE PROPE N ON SITE PLAN/PLAT.

BURIED CABLES, LANDFILLS, STUMPHOLES ☐ YES LINES ☐ YES ☒ NO
EXISTING WASTEWATER SYSTEMS ☐ YES ☐ YES ☒ NO
EASEMENTS OR RIGHT-OF-WAYS ☒ YES ☐ NO GRADING/SOIL REMOVAL PERFORMED ☐ YES ☒ NO

PROPERTY OWNER:

NAME: DR. & MRS. AGUMOBI CHARLES
ADDRESS: 1409 SUGAR HOLLOW DR.
CITY: CHARLOTTE
STATE: NC ZIP: 28214
HOME PHONE: WORK PHONE: 704-866-8030
MOBILE PHONE: 704-674-9147 FAX: 704-866-8717

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME:
ADDRESS:
CITY:
STATE: ZIP:
HOME PHONE: WORK PHONE:
MOBILE PHONE: FAX:

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?

WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?

*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 the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature Date

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

*A Well 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 the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature Date

MECKLENBURG COUNTY HEALTH DEPARTMENT
GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST., SUITE 211
CHARLOTTE, NC 28202 704-336-5103 / FAX: 704-336-6894

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

# IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30001264** GWS File #: **3983B** Tax Parcel #: **023-252-54**

- This 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.

**I. This Improvement Permit Shall:** Expire in Five (5) Years **Expiration Date (If Applicable):** 8/23/2011

Type of Installation: Residential - New System Lot Number: 6

Structure Type: HOUSE Size ($ft^2$): 6238 # Bedrooms: 4 # Occupants: 5

Building Foundation: Basement With Plumbing Water Supply: Private Well

**II. Initial System Type:** PPBPS (pressurized) **System Classification:** IVa

Initial System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 480 | LTAR (gpd/$ft^2$): | 0.3 | Septic Tank Size (gal): | 1500 | Pump Tank Size (gal): | 1500 |
| Trench Width (ft): | 3 | Trench Spacing (ft): | 9 | Absorption Area ($ft^2$): | 801 | Total Trench Length (ft): | 267 |
| Maximum Trench Depth (in): | 30 | Depth of Media (in): | 16 | Distribution Device: | Manifold (LPP Distri | | |

**III. Repair System Type:** PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 480 | LTAR (gpd/$ft^2$): | 0.3 | Septic Tank Size (gal): | 1500 | Pump Tank Size (gal): | 1500 |
| Trench Width (ft): | 3 | Trench Spacing (ft): | 9 | Absorption Area ($ft^2$): | 801 | Total Trench Length (ft): | 267 |
| Maximum Trench Depth (in): | 30 | Depth of Media (in): | 16 | Distribution Device: | Manifold (LPP Distri | | |

**IV. Permit Conditions/Comments:**

*(Please See the Following Page for Permit Conditions.)*

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michelone

Signature: Jeremy Michelone, R.S.

Date Issued: 8/23/2006

Owner/Legal Agent: Felix Romano

Print Name

Signature:

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

## IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30001264** GWS File #: **3983B**

**IV. Permit Conditions/Comments:**

- Owner agreement forms for site reclassification shall be on file prior to issuance of Construction Authorization.
- This type of septic system requires an inspection once every 3 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This type of septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- Install septic system in accordance with the plan submitted by Tony Jacobs & Associates. Bill Marlin LSS, reviewed the backhoe pits with Tony Jacobs on July 25,2000 and agreed to set the LTAR at 0.3 gpd/ft.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michelone

Signature: Jeremy Michelone, R.S.

Date Issued: 8/23/2006

Owner/Legal Agent: Felix Kommerling

Print Name

Signature:

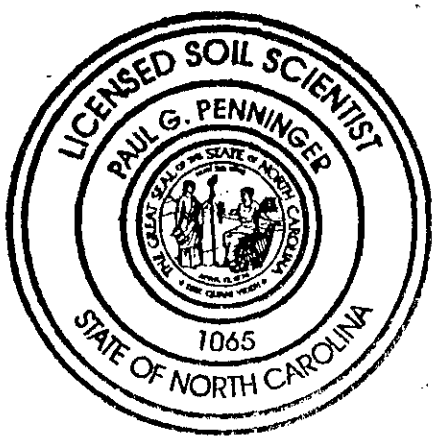
# RESIDENTIAL LOW PRESSURE T & J PANEL SEPTIC SYSTEM FOR SUBSURFACE WASTEWATER DISPOSAL LOT 6 MOUNTAIN VIEW ESTATES

MCHD FILE # 3983B

Prepared for:
Mr. F. G. Keith
5344 Central Avenue
Charlotte, North Carolina 28212

Prepared by:
Toney C. Jacobs & Associates, Inc.
168 Broadbill Drive
Mooresville, North Carolina 28117
office (704) 663-6905
fax (704) 662-9845
E-mail jacobs@i-america.net

August 3, 2000




Copy: Mr. Kelly Randall
MCHD-IWWS
700 N. Tyron Street
Charlotte, NC 28202

Paul G. Penninger, LSS

## BACKGROUND

Lot 6 Mountain Point Estates was originally evaluated by Mr. Bill Marlin of the Mecklenburg County Health Department (MCHD) in July 1999. Mr. Marlin classified the lot as unsuitable due to complex topography and shallow soils. There are numerous large gullies and drains across the lot. There is also a stream and floodplain area shown on the attached site plan.

Toney C. Jacobs and Associates, Inc. performed a soil/site evaluation on July 17, 2000. We found two small areas of provisionally suitable soil and topography on lot 6. Mr. Marlin reviewed the backhoe pits on July 25, 2000 and agreed the soil/saprolite at these two areas was provisionally suitable at a 0.3 gpd/ft$^2$ LTAR. A subsequent system layout by Toney C. Jacobs and Associates showed that a 4-bedroom system and 100% repair would not fit on lot 6. Although the lot is 2 acres, only a small portion is useable for a septic system. The owner has agreed to grant lot 6 a septic area easement on lot 7 to satisfy the 100% repair requirements of the system. Mr. Marlin approved the soils on this easement on July 25, 2000.

We are recommending a pressure T & J panel block system, split into two subfields, for the primary system for lot 6. These subfields will be on lot 6 with 150' T & J panel line each, for a total of 300' of line. The repair will be a T & J panel system on the easement on lot 7. Both the primary system and 100% repair have been flagged in the field. The easement has also been surveyed in the field and will be recorded on the final plat. The proposed system will be a Type IV and require a maintenance contract with a certified operator.

## APPLICATION INFORMATION

1. Owner: Mr. F. G. Keith
   5344 Central Avenue
   Charlotte, NC 28212

   Soil Scientists
   and Designers: Mr. Paul Penninger, LSS
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   168 Broadbill Drive
   Mooresville, NC 28117
   (704) 663-6905 (Office)
   (704) 662-9845 (fax)
   E-mail jacobs@i-america.net

2. Water supply is provided by a private well.
3. Facility to be served by the proposed system is a 4-bedroom single family residence.

## LOCATION

The property is located off Mountain Point Lane at the cul-de-sac.

## REFERENCES

Design and Installation of Low Pressure Pipe Waste Treatment Systems by: Craig Cogger, Bobby L. Carlile, Dennis Osborne, Ed Holland; published by UNC Sea Grant College Pub. UNC-SC-82-03, May 1982.

Law and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment Health and Natural Resources, August 1, 1998.

T & J Design Manual.

## PLANS AND SPECIFICATIONS FOR SPECIFIC SYSTEM COMPONENTS

### *Septic Tank*

1. The septic tank receives wastewater directly from the house.
2. A septic tank shall be watertight, structurally sound, and not subject to excessive corrosion or decay.
3. The septic tank must be of two-compartment design for maximum solids retention. The inlet compartment of two-compartment tank shall hold between two-thirds and three-fourths of the total tank capacity.
4. Effluent from the two-compartment septic tank flows by gravity through a State approved effluent filter and a four-inch solid PVC pipe to the pumping tank.
5. Both the septic tank and pumping tank must be provided with above ground approved manhole risers to provide easy access for clean-out and pump service.
6. When prefabricated concrete tanks or tanks of other material are used, they shall be constructed in accordance with the plans which have been approved by the State and shall comply with all requirements of Section .1953 of 15A NCAC 18A.
7. On the outlet tee of the septic tank an effluent filter must be installed. This filter should be equivalent to a Zabel Model A1800 or other State approved unit supplied by the tank manufacturer.

### *Pumping Tank*

1. The pumping tank shall have an access manhole extending at least 6 inches above finished grade.
2. A septic tank effluent pump that will not be corroded by sewage shall be used in the pumping tank.
3. The pump must be placed on two concrete blocks set next to each other on the bottom of the tank. This prevents the pumping of any solid particles that can clog the system.
4. A piece of nylon rope or other non-corrodible material should be attached to the pump and to the outlet pipe for lifting the pump in and out of the chamber.

5. The lower level control or "pump-off" must be positioned above the pump, so that the pump remains submerged at all time.
6. The pump outlet pipe should be connected to the supply manifold with a threaded PVC union to allow quick removal.
7. Pump and Simplex 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 finished grade. Pump control (Simplex) may be mounted on side of house if long cord pump is used. The pump 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, gas proof, 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. There shall be two electric circuits for controls: one for pump power, one for the alarm. These will require 2 circuit breakers.
8. 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. It should be on a separate electrical circuit from the pump power line. The alarm shall be audible and visible by system users and included in the pump and control enclosure (Simplex Panel). The alarm is activated if the water level in the pump tank rises above the "pump-on" float control. The tank provides at least one day or more of excess storage capacity (depending on water use in the home) during which time the system must be repaired.
9. Float switch for the high water alarm shall be set no more than 3 inches above the high water level of pump cycle.
10. Float switch tie downs to be made of corrosion resistant material, no tape or metal hose clamps. For maintenance flexibility, tree must be used to set floats.
11. Watertight testing per .1900 rules shall be required on two piece pump tanks.
12. Wiring between the pumping tank and the house should meet State and local code requirements.

*Pipe and Fittings*

1. All pipes and fitting should be made of SCH 40 PVC.
2. All joints must be sealed with appropriate PVC-solvent cement.
3. There should be a threaded PVC union above the pump to allow easy removal or replacement.
4. A gate valve for final pressure adjustment is installed in the supply line inside the pumping tank.
5. Manifold and valve as shown in specifications.
6. Lateral lines are made of 1 1/4 inch SCH 40 PVC placed in T & J panels. Holes in laterals are drilled on-site.
7. The end of each lateral is equipped with a capped "turn-up" that provides above ground access for clean-out or back flushing of the laterals. Using (2) 45-degree elbows rather than a 90-degree elbow for the turn-ups will make clean-out easier.

*Automatic Multizone Valve*

This valve allows for dosing different subfields with the same pump. Subfield A will be dosed during one pump cycle, and subfield B will be dosed the next pump cycle. Specifications are enclosed.

## CONSTRUCTION INSTALLATION

*Site Preparation*

1. One of the most important concerns for an on-site system is to protect the site from soil disturbance by heavy equipment.
2. Now that the absorption area has been designed and flagged, it should be roped off and protected from construction traffic. No site preparation or construction work should occur if the soil is wet.
3. After the soil is dry enough, the site should be cleared of brush and small trees. **Do Not Grade!**
4. Provisions must be made for intercepting or diverting surface water away from the absorption area.
5. After the area has been cleared and shaped, the location of the lateral lines and supply manifold should be accurately re-flagged according to design specifications. Each lateral line must be laid out along a level contour using a transit. This step can be completely avoided if flags are protected during clearing.

*Tank Installation*

1. The two-compartment septic tank is installed.
2. The pumping tank is installed next to the septic tank.
3. The tanks are connected with an appropriate length of solid, four-inch PVC pipe.

*Supply Manifold*

1. The supply manifold conveys effluent from the pump to the distribution laterals.
2. Design of the manifold is shown on attached diagrams.
3. The manifold joins each lateral through a short riser pipe connecting a reducing tee on the manifold to a 1 1/4 inch elbow or tee on the lateral. This assembly places each lateral pipe about six inches higher than the supply manifold and helps prevent the back-flow of effluent from a higher lateral to a lower lateral. Use a 2" x 2" x 1 1/4" tee rather than bushing down when connecting laterals to the manifold.
3. After the supply manifold has been placed in its trench and lateral lines connected, it should be backfilled with tightly tamped soil. The supply manifold trench must not be backfilled with gravel, or the trench may become a conduit for downslope flow effluent from the laterals.

*T & J Lateral Lines*

1. Install T & J Panels per cited reference material and this plan.
2. Trenches shall be 24" wide, and 8' minimum on center. Trenches shall be "level" from end to end.
3. There should be one 5/32 inch hole near the center of each panel, pointed up. (Note this system uses two subfields; one has two valves and the other has three valves.)
4. A short turn-up with a capped end is at the end of each lateral. The capped end must be brought up above or flush with the final grade. Using two 45-degree elbows for constructing cleanouts is recommended. A larger diameter sleeve with cap or approved box with lid shall be placed over the turn-up.

## PROPER OPERATION CHECK AND PRESSURE HEAD ADJUSTMENT

1. After all connections have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pump tank with a garden hose until the liquid rises to the level of the high-water alarm float.
2. Turn on the electrical power. The alarm light should go off when the liquid level falls below the high-water float. The pump should turn off when the liquid reaches the lowest float control. Be sure the pump is still completely submerged.
3. The pressure head is measured as the height liquid will rise above the turned-up elbow when the pump is running. To set or check the pressure head:

    - Glue a three-foot length of pipe (preferable clear) to a threaded adapter that will screw onto the turn-ups at the end of each lateral.
    - Replace each turn-up cap with the pipe and adapter.
    - Turn the power on to allow liquid to rise in the pipe.
    - Adjust the gate valves until the effluent reaches the desired height in the pipe. Remember to include the distance below the ground surface to the lateral line when measuring the height.

## FINAL LANDSCAPING

1. After the system is installed, the following should be checked to ensure that the system will not be overloaded with excess rainwater and runoff:
    - The distribution field is shaped to shed rainwater and is free of low areas.
    - Grassy swales or ditches for diverting surface water are properly installed.
    - Gutter and downspout drains are directed away from the system.

2. Finally, the entire area should be planted with grass in order to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized before planting. After applying an appropriate grass seed, the area should be heavily mulched with straw or other suitable material.

QUALITY ASSURANCE REQUIREMENTS

The system must be installed by a qualified, contractor that is on the Mecklenburg County list of competent contractors. Critical stages of the installation, which should be checked, are:

1. System layout
2. Septic and pump tank installation prior to backfilling.
3. Manifold and lateral installation prior to backfilling.
4. Final landscaping, operation and pressure head check.

The system design is based on a maximum waste flow of 480 gallons per day. Homeowners should pay particular attention to the section titled Homeowner Suggestions for ways to minimize the burden on the system.

OPERATION AND MAINTENANCE PROCEDURE

The system is classified as **Type IV and DOES require a maintenance contract** with a certified operator. The contract shall be executed between the system owner and a management entity prior to the issuance of an Operation Permit. The contract shall include the specific requirements for maintenance and operation, responsibilities of the owner and system operator, and provisions that the contract shall be in effect for as long as the system in in use.

Operating, Maintenance and Inspection procedures shall include, but not be limited to the following:

Minimum inspection/maintenance frequency shall be 2 times per year, with reporting frequency every 6 months to the local health department.

Septic system shall be pumped every 4 years or when solids accumulate to 1/3 the volume of the tank.

At 6 month intervals, inspect the effluent filter. When washing the filter, debris must be sprayed directly back into the septic tank and not onto the lawn.

All laterals shall be checked and if necessary, flushed annually with clean water.

Pressure head for laterals should be checked and adjusted one month after installation and semi-annually thereafter.

All piping and fittings shall be checked annually for damage and/or proper operation and corrections made immediately.

The property should be inspected to insure all surface water is diverted away from the fields and tank. Any ponding of surface water should be corrected.

Grasses shall be mowed and maintained and any erosion shall be corrected promptly.

The nitrification field area shall be checked for leakages, blowouts or malfunction, indications of damp or mushy areas compared to surrounding area or evidence of noticeable odor of sewage. Repairs shall be made immediately.

The pump electrical should be checked to insure tight, clean connections with

no corrosion and proper operation.
Pump switches shall be checked for free operation and proper level set.
Pump draw down depth and delivery rate shall be checked each year.
Check septic tank and pump tank for evidence of damage or leakage. Check the quality of effluent including grease and sludge accumulation.

The system operator, in conjunction with the local Health Department shall establish an operation and maintenance program and procedure based on experience obtained from similar installations.

HOMEOWNER SUGGESTION

Most systems do not require much effort to operate and maintain. Even though the effort is small, the system must be maintained properly so that it operates reliably and at a minimum cost. Following are suggestions for the homeowner to minimize the burden on the septic system.

1. Garbage disposals should not be used in on-site systems. The ground garbage adds large amounts of solids to a septic tank, causing sludge to build up at a quicker rate than without. If disposal is installed, use should be limited.
2. Grease, cooking oils and coffee grounds should never be put into a septic tank.
3. Items such as disposable diapers, cigarettes, facial tissues and other solid or paper wastes should not be flushed into the on-site system.
4. Used motor oil and other such oily liquids should not be put into a septic tank.
5. Using less water can reduce the amount of water flowing to the treatment and disposal field.
6. Water-saving fixtures and devices can be installed on sinks, toilets and showers to reduce the rate at which the water flows from the fixture.
7. Dishwashers and washing machines should only be run with full loads.
8. Leaky faucets and toilets can add large volumes of water to the daily flow of water into the on-site system. Repair the leaks to save water and give the treatment and disposal field a rest.
9. Roof drains, basement sump pumps, foundation drains, and other such drains should not empty into or onto the surface above the on-site system. These drains should be directed to another part of the lot away from the treatment and disposal field.

**DESIGN SPECIFICATIONS (Lot 6 Mountain Point Estates)**

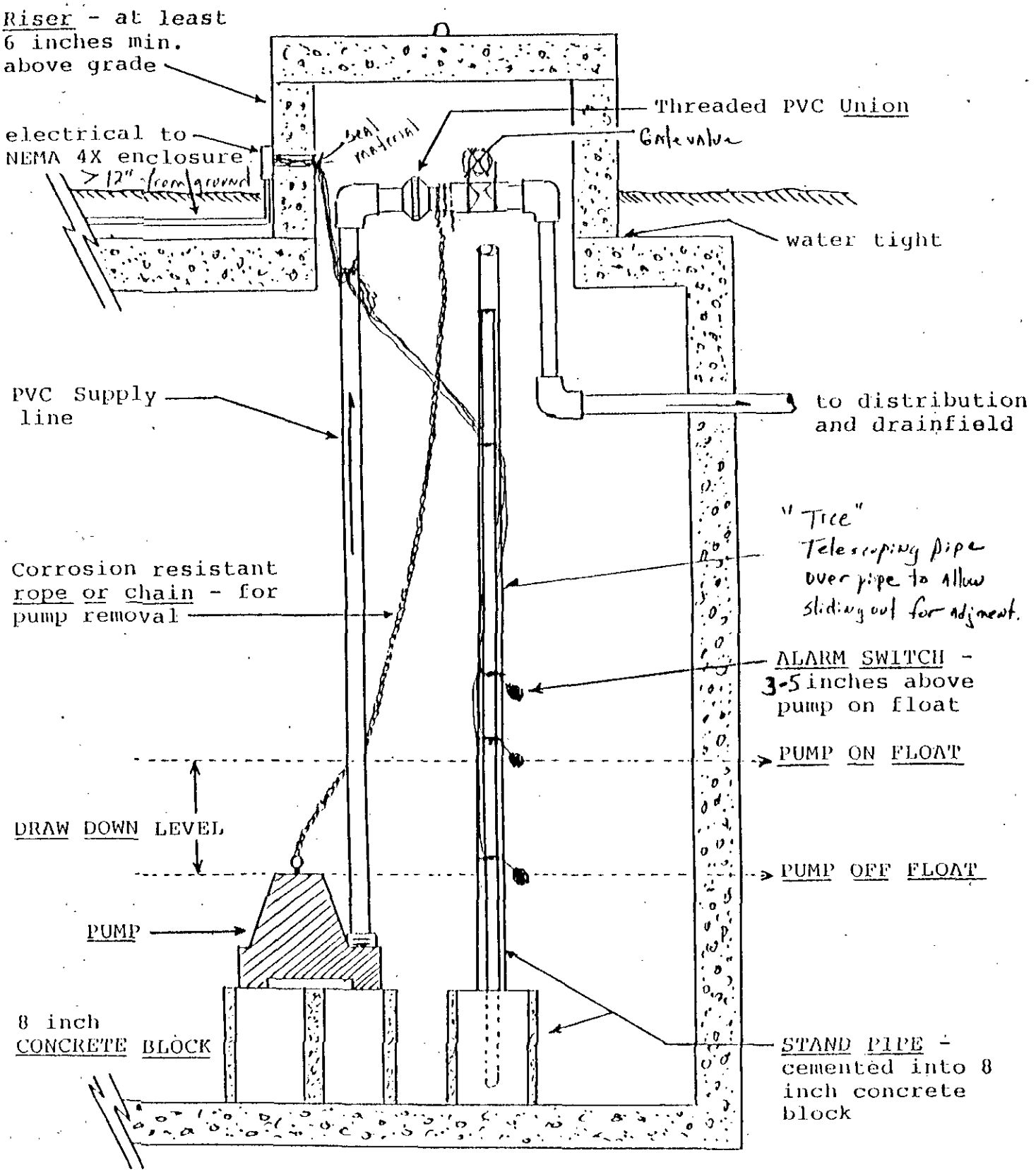
| | | |
|---|---|---|
| Daily design flow: | 480 gpd. | |
| Septic tank size: | 1500 gal. (2 compartments) | |
| Pumping tank size: | 1500 gal. | |
| Effluent loading rate: | 0.3 gpd/ft$^2$ | |
| Total length and diameter of supply pipe:(2" SCH 40 PVC) | *Subfield A* | *Subfield B* |
| | 60' | 310' |
| Number and length of laterals: (1¼ SCH 40 PVC) | 2 @ 75' | 3 @ 50' |
| Hole size: | 5/32" | 5/32" |
| Hole spacing: | 1 per panel | 1 per panel |
| Total number of holes: (one in each T & J Panel near the Center with the hole turned up) | 34 | 33 |
| | 17 panels per 75' line | 11 panels per 50' line |
| Flow rate through the system: | 17 gpm | 16.5 gpm |
| Elevation head: | 9.1' | 11.4' |
| Pressure head: | 3.0' | 3.0' |
| Friction head: | 1.0' | 3.3' |
| 20% contingency | 2.6' | 3.5' |
| Total head: | 15.7' | 21.2' |

| | |
|---|---|
| Pump requirements: | 17 gpm at 22' of head; use Myers ME33 pump or equivalent with compatible electrical |
| Dosing volume: | 118 gal. – 2 doses/day per subfield 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 gal.) |
| Pump run per dose: | approx. 7 min |
| Check valve: | Yes; between Alternating Valve and drainfield on subfield B |
| Siphon break hole: | Yes |

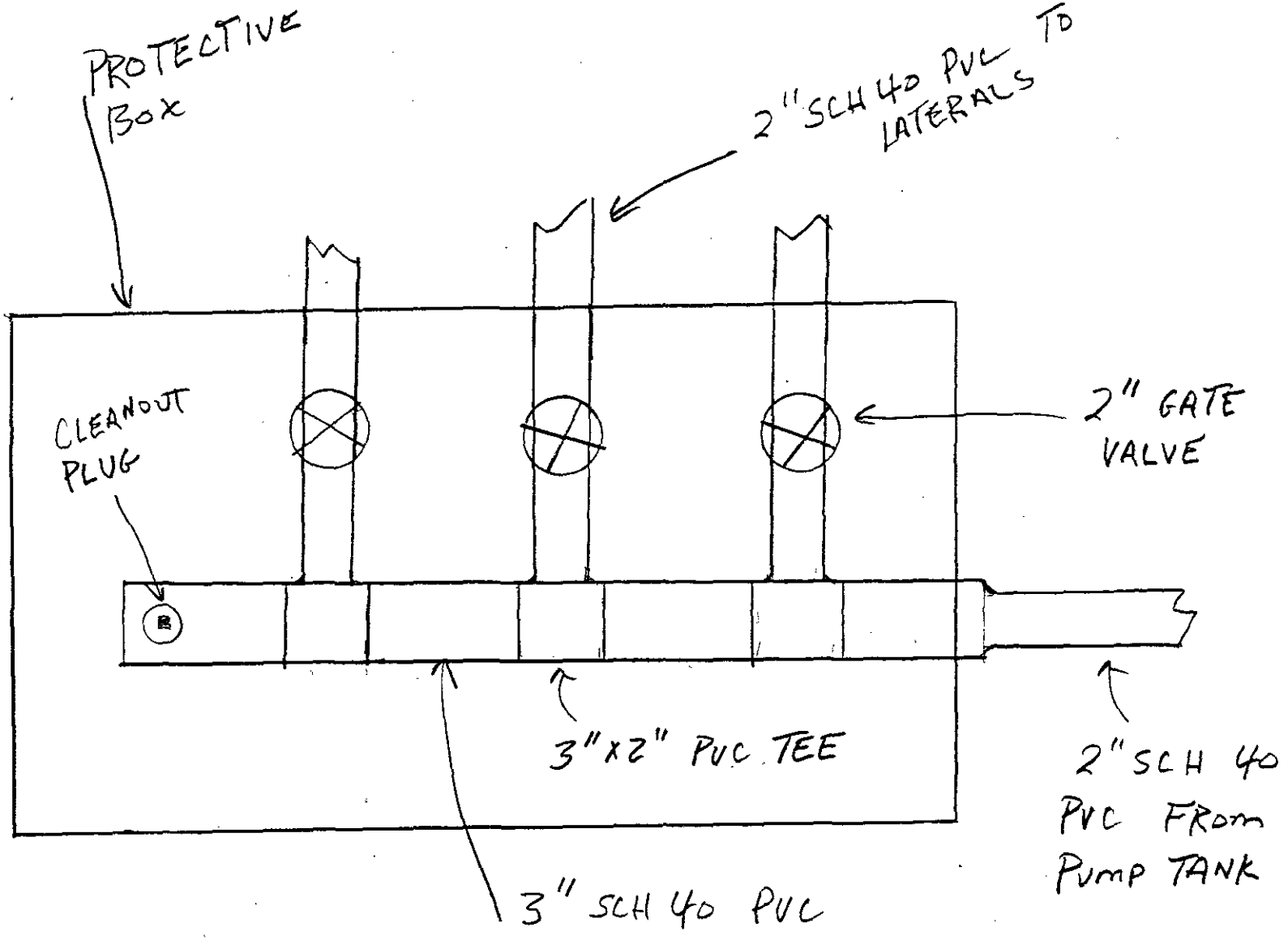
* Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.

3983B
8/23/06

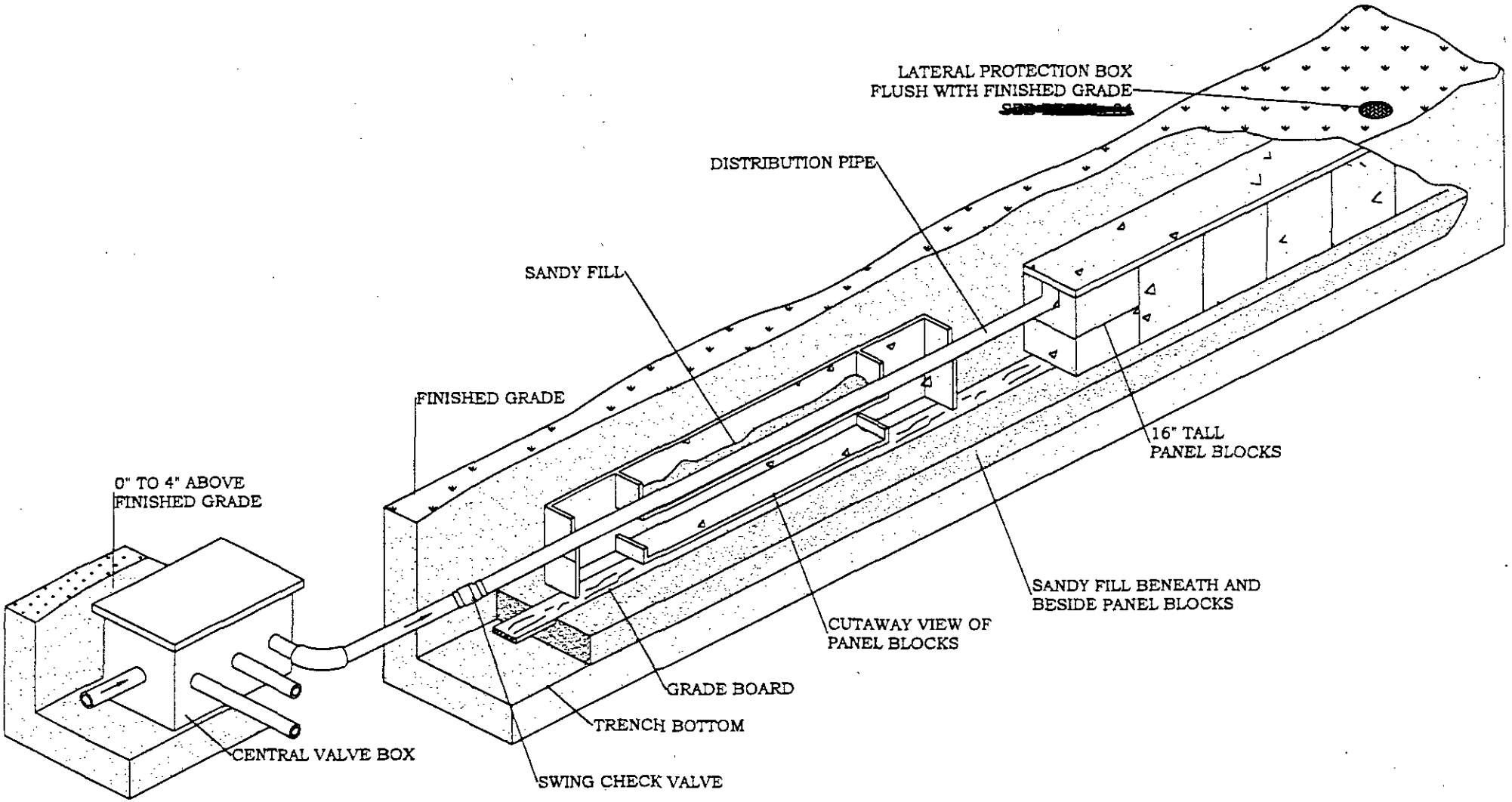
# PUMP DIAGRAM



# CENTRAL VALVE BOX DETAIL



# PREFABRICATED PERMEABLE BLOCK PANEL
# DETAIL 1.3A




From THE POINT SEPTIC
SYSTEM INFO
(TRI-COUNTY WASTEWATER MGT 1998)

"Quality Pumps Since 1939"

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

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# ZOELLER ON-SITE WASTEWATER PRODUCTS

## ZOELLER SEPTIC SYSTEM ACCESSORIES

## Automatic Multizoned Valves

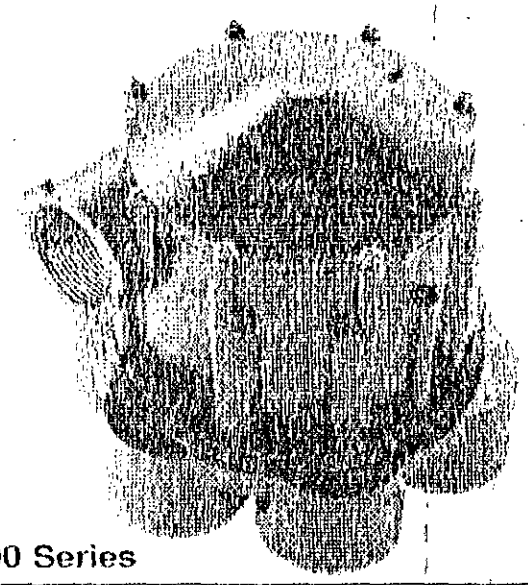
NEW!

The Zoeller 4000 Series of distribution valves offers a reliable, economical way to automate multiple zoned residential and small commercial disposal fields. The simplicity of design and a minimum of moving parts ensure ease of maintenance and long service life. These patented valves are ideally suited for pump fed applications using reclaimed or dirty water.



4000 Series

The Zoeller 6000 Series is the foundation of distributing valves. Patented for its ability to manifold multiple zones with only one moving part. This valve offers exceptional reliability and durability under dirty water conditions. With its metal die cast body, the 6000 Series valves are capable of high pressure applications and are recommended to be used on pump fed systems.



6000 Series

Distributed by:

ZOELLER PUMP CO.

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# 4000 & 6000 Automatic Multizoned Valves

| PERFORMANCE SPECIFICATIONS | 4000 SERIES | 6000 SERIES |
|---|---|---|
| Flow Range: | 4 Outlet Valve: 10 - 40 GPM<br>6 Outlet Valve: 10 - 25 GPM | 4 Outlet Valve: 15 - 150 GPM<br>6 Outlet Valve: 15 - 150 GPM |
| Pressure Rating: | 25 - 75 PSI | 25 - 150 PSI |
| Pressure Loss - 4 Outlet Valve: | Flow (GPM): 10 20 30 40<br>PSI Loss: 2.0 3.0 4.5 6.4 | Flow (GPM): 20 40 60 80 100<br>PSI Loss: 2.5 3.5 5.0 7.5 10.0 |
| Pressure Loss - 6 Outlet Valve: | Flow (GPM): 10 20 30<br>PSI Loss: 2.5 4.5 7.5 | Flow (GPM): 20 40 60 80 100<br>PSI Loss: 3.0 4.0 6.0 9.0 11.0 |

| PHYSICAL SPECIFICATIONS | 4000 SERIES | 6000 SERIES |
|---|---|---|
| Inlet: | Slip and glue connections to 1¼" PVC pipe. | Threaded 1½" NPT Connection. |
| Outlets: | Slip and glue connections.<br>4 Outlet Valve: To 1¼" PVC Pipe<br>6 Outlet Valve: To 1" PVC Pipe | Slip and glue connections to 1½" PVC Pipe. |
| Construction: | High strength noncorrosive ABS polymer. | Valve Top/Housing: Die Cast Metal<br>Valve Outlets: High strength non-corrosive ABS Polymer |
| Dimensions: | Height: 5¾" Width: 5¾" | Height: 7" Width: 8" |

## 4000 SERIES:

**4 Outlet Models have interchangeable cams for 2, 3, or 4 zone operation.**

P/N 170-0064 Model 4402 - Cammed for 2 Zone operation, with four outlet bottom.
P/N 170-0065 Model 4403 - Cammed for 3 Zone operation, with four outlet bottom.
P/N 170-0066 Model 4404 - Cammed for 4 Zone operation, with four outlet bottom.

**6 Outlet Models have interchangeable cams for 5 or 6 zone operation.**

P/N 170-0067 Model 4605 - Cammed for 5 Zone operation, with six outlet bottom.
P/N 170-0068 Model 4606 - Cammed for 6 Zone operation, with six outlet bottom.

## 6000 SERIES:

**4 Outlet Models have interchangeable cams for 2, 3, or 4 zone operation.**

P/N 170-0069 Model 6402 - Cammed for 2 Zone operation, with four outlet bottom.
P/N 170-0070 Model 6403 - Cammed for 3 Zone operation, with four outlet bottom.
P/N 170-0071 Model 6404 - Cammed for 4 Zone operation, with four outlet bottom.

**6 Outlet Models have interchangeable cams for 5 or 6 zone operation.**

P/N 170-0072 Model 6605 - Cammed for 5 Zone operation, with six outlet bottom.
P/N 170-0073 Model 6606 - Cammed for 6 Zone operation, with six outlet bottom.

**6" Clear PVC Pipe**

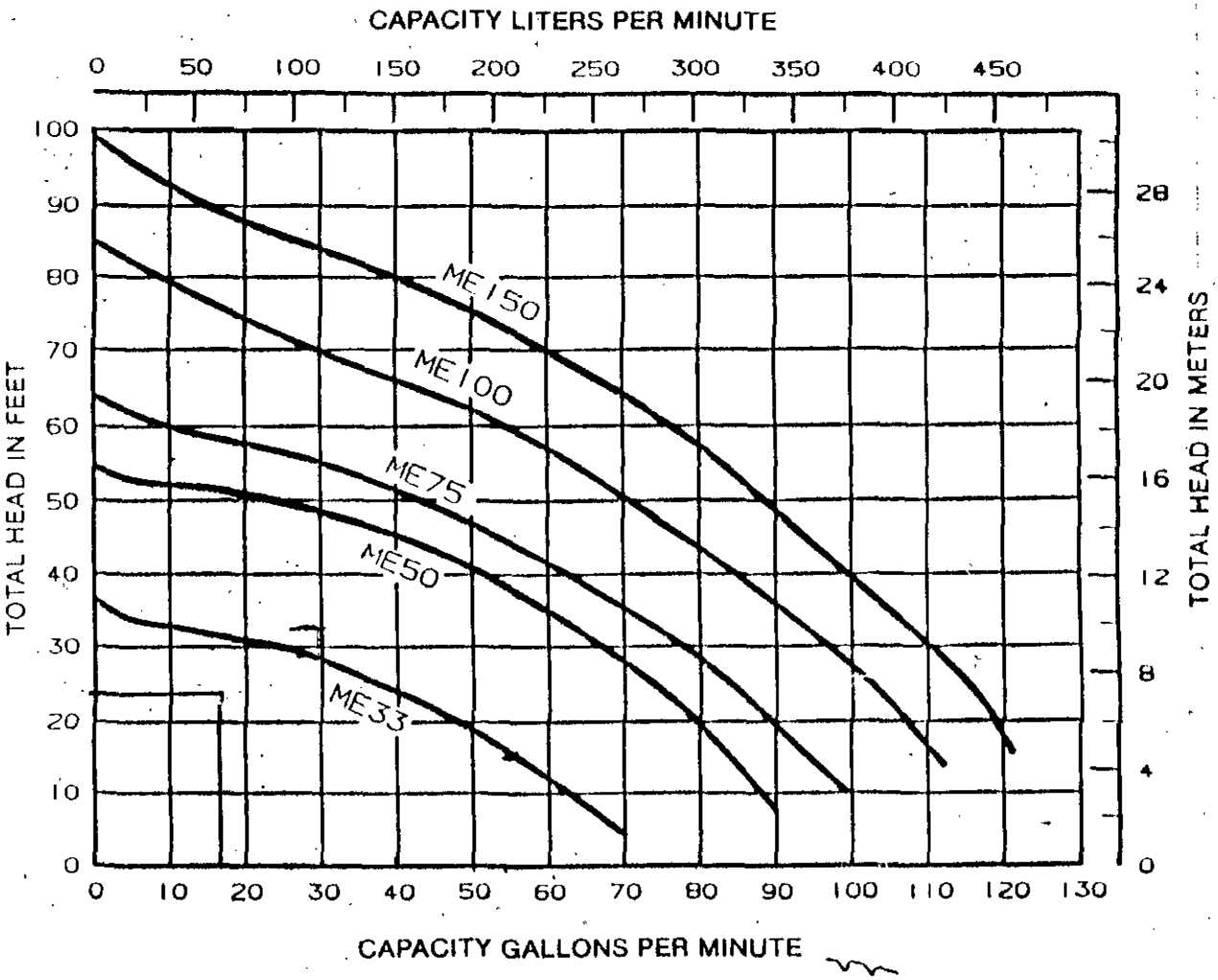
P/N 170-0074 6" Clear PVC pipe for 4400 2-4 Zone - (4) 1¼" dia. pieces.
P/N 170-0075 6" Clear PVC pipe for 4600 5-6 Zone - (6) 1¼" dia. pieces.
P/N 170-0076 6" Clear PVC pipe for 6400 2-4 Zone - (4) 1½" dia. pieces.
P/N 170-0077 6" Clear PVC pipe for 6600 5-6 Zone - (6) 1½" dia. pieces.

ZOELLER ON-SITE WASTEWATER PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE PLUMBING DEPARTMENT CODES.

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

Myers




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# 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.

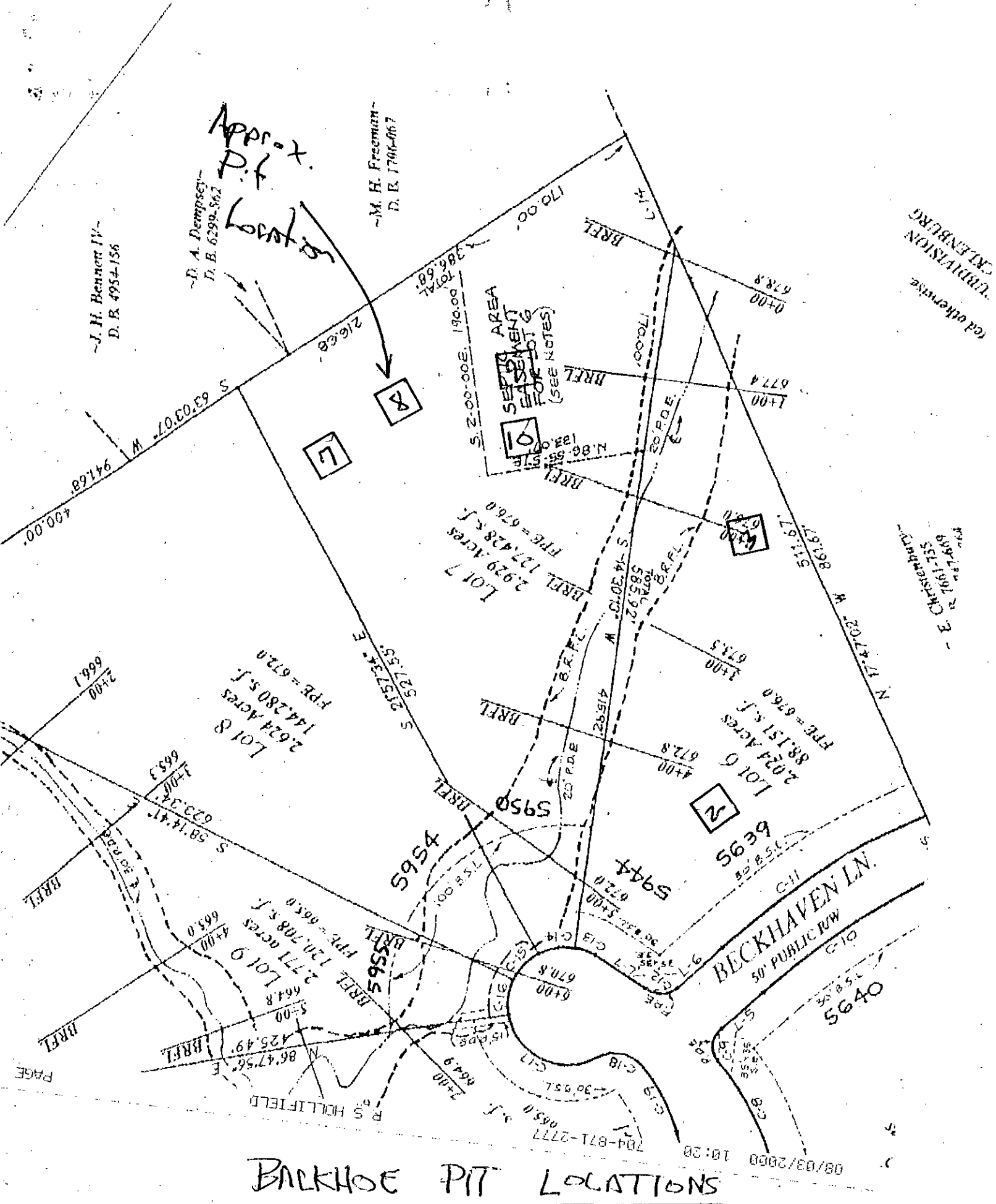
## PRODUCT CAPABILITIES

| | | |
|---|---|---|
| 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<br>1/3 to 1-1/2 HP, 230 volts, 1 ph<br>208, 230, 460, 575 volts, 3 ph<br>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<br>Duplex | 24 in.<br>36 in. | 61 cm<br>91.4 cm |

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

*WHERE INNOVATION MEETS TRADITION*

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BACKHOE PIT LOCATIONS

FEE: _____ **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION**
DATE: _____ **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

DATE: 9-9-00 PERMIT NO: 3983-B
PARCEL NO: PO 023 252-33
JOB LOCATION ADDRESS: Mountain Point Lane Lot 6
PROPERTY OWNER: F. G. Reith
BUILDING CONTRACTOR:
SUBDIVISION NAME: Mountain Point Estates
AUTHORIZATION ISSUED BY: _____ DATE: 9-9-00
DEHNR AUTHORIZED AGENT

## AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 3983-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
- install as plan on file
- Type II system - certified operation required

## 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.

SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE — DATE 8/31/00

Permit Number 3903-13 IMPROVEMENT PERMIT Tax Number PO 023-252-33

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<br>Type (circle one):<br>I II III (IV) V VI | ___ Conventional<br>✓ Prefabricated, permeable block panel system<br>___ Shallow Placed Conventional | ___ Low Pressure Pipe<br>___ Large Diameter Pipe<br>___ Fill<br>___ Other | ___ Innovative or Experimental:<br>___ IWWS-93-1<br>___ IWWS-93-2<br>___ IWWS-94-1 |
| 3 Long-term acceptance rate | 480 Max gallons/day wastewater flow | 600 Absorption Area (sq ft) | 9 Trench spacing (min. on centers) |
| yes Serviced by private well | 1500 Gallon septic tank | 300 Total trench length (ft) | 30" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions) |
| 4 Bedrooms in residence | 1000 Gallon pump tank | ___" Depth of stone (NO) | |
| Any surface waters present: NO Type: | | Minimum separation distance: | |
| Site modifications required: | | | |
| Additional Conditions: - agreement plans must be executed and recorded prior to installation approval.<br>- install w/ plan on file<br>- Type IV system - certified operator required | | | |
| Repair Area System Type<br>Type (circle one):<br>I II III IV V VI | ___ Conventional<br>___ Prefabricated, permeable block panel system<br>___ Shallow Placed Conventional | ___ Low Pressure Pipe<br>___ Large Diameter Pipe<br>___ Fill<br>___ Other | ___ Innovative or Experimental:<br>___ IWWS-93-1<br>___ IWWS-93-2<br>___ IWWS-94-1 |
| ___ Absorption Area (Sq ft)<br>___ Total Trench Length (Ft) | ___ Depth of Stone Trench | ___ Trench spacing (min. on centers) | ___ 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.

Wally Pell 9-9-00
DEHNR Authorized Agent Date

Tony C. Clark, CBSS 8/31/00
Owner/Agent Signature Date

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

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

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

AES

#3

Sheet: _____

Property ID: PO 023-252-33

Lot #: 6

File #: 3983B

# SOIL/SITE EVALUATION
## *for* ON-SITE WASTEWATER SYSTEM

OWNER: F. J. Keith APPLICANT: _____

ADDRESS: 5344 Central Ave, Charlotte DATE EVALUATED: 6-29-99

PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949) 480gpd PROPERTY SIZE: 2.4 ±

LOCATION OF SITE: off Mountain Point Lane PROPERTY RECORDED: _____

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

EVALUATION METHOD: ☑Augur Boring ☐Pit ☐Cut

TYPE OF WASTEWATER: ☑Sewage ☐Industrial Process ☐Mixed

| PROFILE # | 1940 Landscape Position/ Slope % | Horizon Depth (IN.) | SOIL MORPHOLOGY (.1941) 1941 STRUCTURE/ TEXTURE | 1941 CONSISTENCE MINERALOGY | OTHER PROFILE FACTORS 1942 SOIL WETNESS/ COLOR | 1943 SOIL DEPTH | 1956 SAPRO CLASS | 1944 RESTR HORIZ | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS 10% | 0-3" | gr/fr | Fri SEXP/ SS/SP | >32" TO Soil wetness | 32" | N/A | None | US .275 gpd/ft² LTAR |
| | | 3-32" | sBK/fr | Fri SEXP/ 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. Marlin 6-30-99

OTHER(S) PRESENT: LSS

FILE # 3983B

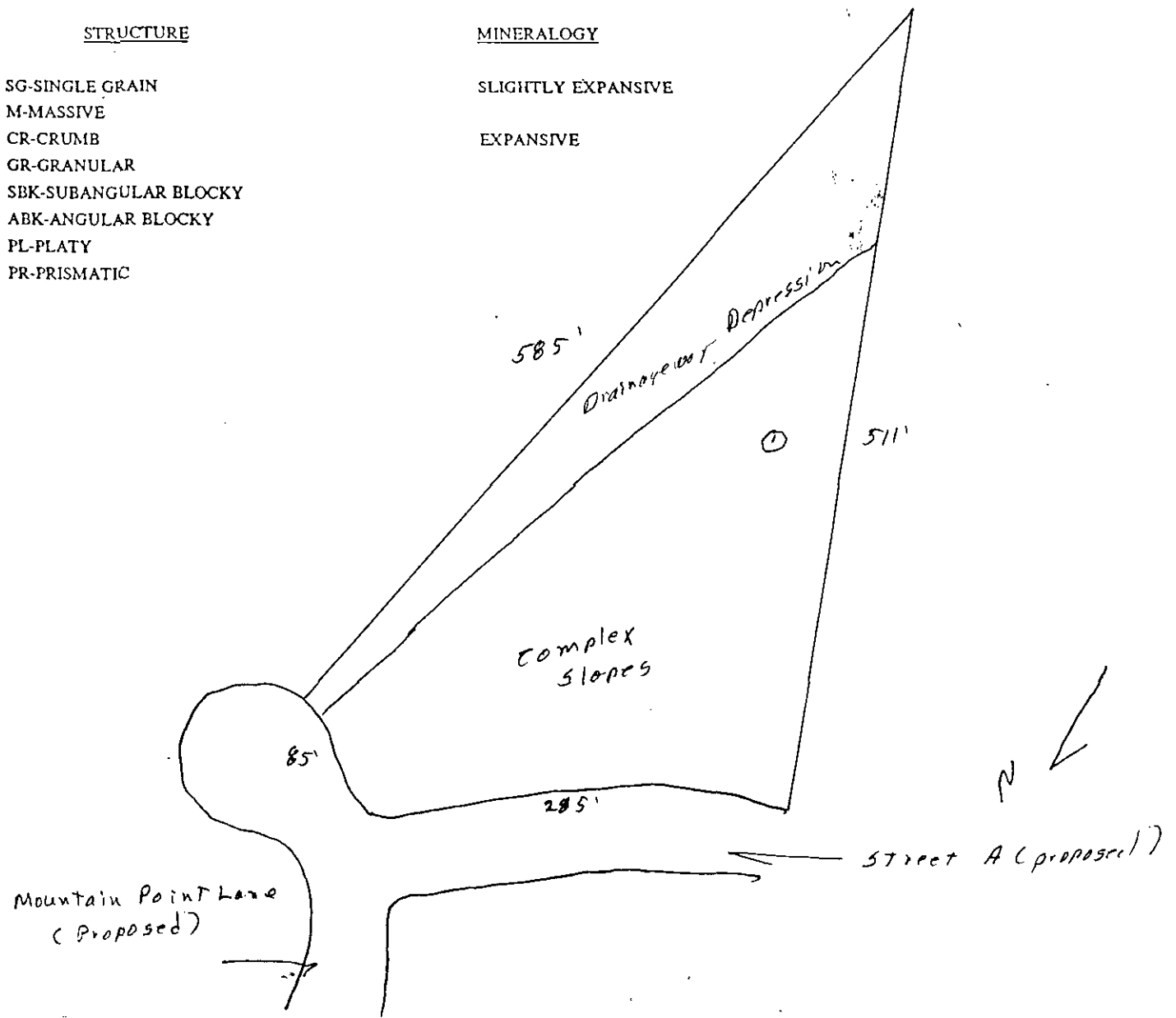
**COMMENTS** 100% Repair, Majority of lot is composed of complex slopes, one drainageway depression is along one side - does not appear to be sufficient space of useable topography to install a septic tank system

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

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

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

| MINERALOGY |
|---|
| SLIGHTLY EXPANSIVE |
| EXPANSIVE |



FEE: 100.00 CK # 2299

DATE: 6/15/99 VIC

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 #: 3982B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 023-252-33R006

STREET ADDRESS: Lot 6 ~~MT ISLAND DR~~ MOUNTAIN POINT LANE

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: Lot 6

TYPE OF BUILDING (CHECK ONE):

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

TOWNSHIP (CHECK ONE):

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

HEATED SQUARE FOOTAGE: 3500

NUMBER OF BEDROOMS: 4 NUMBER OF OCCUPANTS:

CLOSING DATE_____

FOUNDATION FOR RESIDENCE:

- [ ] WITHOUT BASEMENT ON SLAB
- [✓] CRAWL SPACE
- [ ] WITH BASEMENT /PLUMBING
- [ ] WITH BASEMENT /NO PLUMBING

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

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: [ ] YES [✓] NO TYPE: _____

WATER SUPPLY (CHECK ONE):

- [ ] COMMUNITY (C)
- [ ] MUNICIPAL (M)
- [✓] PRIVATE WELL (P)
- [ ] SHARED WELL (S)
- [ ] OTHER 'SPRINGS' (O)

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

| | | | |
|---|---|---|---|
| BURIED CABLES, LANDFILLS, STUMPHOLES | [ ] YES [✓] NO | WELL, SPRINGS OR WATERLINES | [ ] YES [✓] NO |
| EXISTING WASTEWATER SYSTEMS | [ ] YES [✓] NO | DESIGNATED WETLANDS | [ ] YES [✓] NO |
| EASTMENTS OR RIGHT-OF-WAYS | [ ] YES [✓] NO | | |

| PROPERTY OWNER: F. G. Keith | LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE: |
|---|---|
| NAME: (LAST) Keith (FIRST) F. (MI) G. | NAME: (LAST) Rose (FIRST) Kathy (MI) |
| ADDRESS: 5344 Central Avenue | DAYTIME PHONE: ( ) 399-4848 |
| CITY: Char STATE: NC ZIP: 28212 | |
| DAYTIME PHONE: ( ) 568-4195 | |

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

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: F. G. Keith DATE: 6-15-99

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

# Supervisor/Administrative Professional Checklist

**New Septic** ☑ **New Well** ☐ **Use Existing** ☐ **Alteration** ☐ **Modified Plot Plan** ☐

**New Septic Fees Paid:**

IP ($250.00) Linda Snider Initials/Date 2/23/15 Receipt # 93133

CA ($200.00) VAW Initials/Date This part of the $200.00 from Credit

OP ($200.00) VAW Initials/Date 4/16/15

(CA and OP fees need to be paid before a building permit can be issued)

**New Well Fee Paid:** $550.00 VAW Initials/Date 4/16/15

**Use Existing Fee Paid:** $100.00 _____ Initials/Date

**Alteration Fee Paid:** $300.00 (Total) $200 (If use existing was paid)_____ Initials/Date

**Modified Plot Plan Fee Paid:** ~~$100.00~~ Credit $50.00 & Charged $50.00 VAW Initials/Date 4/16/15

CREdit of $250.00 from Receipt #93133 on 2/23/15 entered by Linda Snider for a New system (Septic). The first soil evaluation was still valid.

Floor plans need to be submitted and reviewed before CA can be issued. ☑ Reviewed ☑ SPM

OK To generate CA

This site is served by septic and well. Verify each is complete before final hold is released. ☑

Septic file completed. ☑ JAM Well file completed. ☑ JAM

Send permit for signature. ☑ Signature received. ☑ _____

This septic system requires a certified operator contract before final hold is released. ☐

Certified operator contract is on file. ☐ _____

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

# Septic System Pre-Construction Meeting Checklist

File # 39838 App # 7418 Tax Parcel # 023-252-54

Property Owner: Jacob B. Mack

Job Location Address: 5944 Mt. Point Lane

City: Charlotte State: NC Zip Code: 28216

1. **Does System design match facility, flow & wastewater characteristics?**

   ☒ YES ☐ NO

   Comments:

2. **Is there sufficient available space for the septic systems initial and repair areas?**

   ☒ YES ☐ NO

   Comments:

3. **Can the septic system be installed per the permit conditions and drawing on file?**

   ☒ YES ☐ NO

   Comments:

* If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☒ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. **System shall not be installed while soils are in wet condition.**

Tony Mack, REHS — **Authorized Agent**

12/21/16 — **Date**

Willy Christenbury — **Others Present**

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

# OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 39838 Permit #: 7418 Tax Parcel #: 023-252-54

Property Owner: JACOB MOCK

Job Location Address: 5944 Mt. Point Lane

City: Charlotte State: NC Zip Code: 28216

**Operation Permit Issuance Date:** 1/18/17 Contractor Name: Willy Christenbury

Permitted Design Flow: 480 GPD Liquid Capacity of Dosing Tank: N/A gallons

Liquid Capacity of Septic Tank: 1500 gallons Manufacture Dellinger Effluent Pump Model: N/A

Drainfield Installation ☐ N/A

Trench Depth: 24 inches

Trench Width: 2 feet

Line Spacing: 9 feet (O.C.)

Total line length: 300 feet

# of Lines: 4 @ 75 feet

Depth of Media: 16 inches (Type) PPBPS

Depth of Cover: 6 inches

Distribution Device: Flow Divider / D-Box

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 46'/32' feet

Distance from Property Line: 710' feet

Distance from Water Supply Source: >100' feet

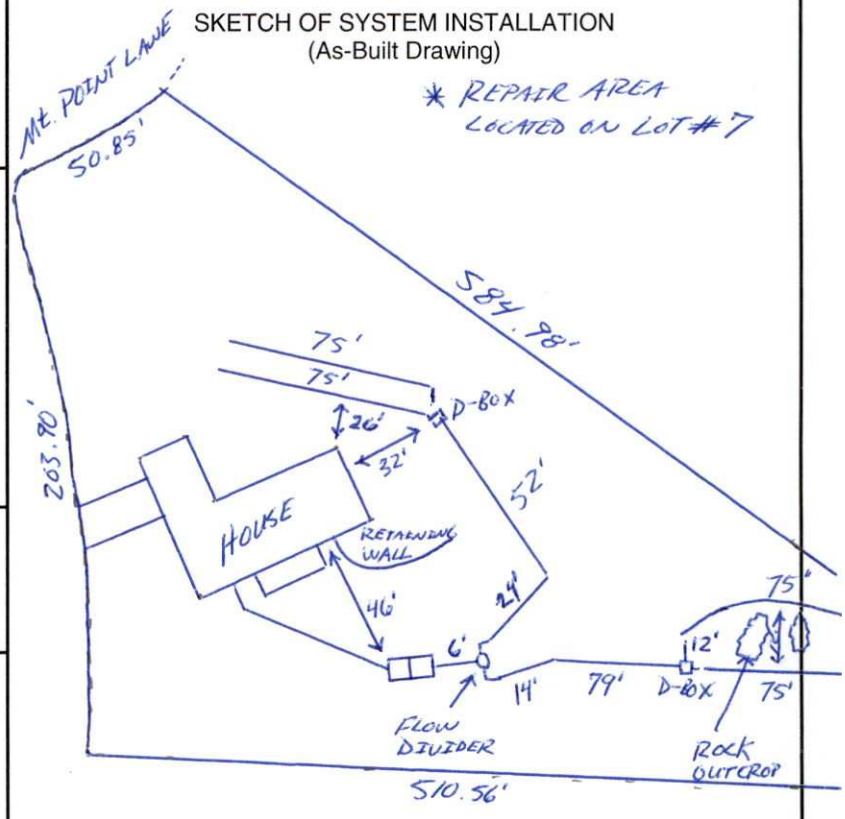
Inspection Dates

Tank(s) Inspected: 1/17/17

Excavation Inspected: 1/17/17 / 1/18/17

Pump & Controls Inspected: NA

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)




The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☐ in accordance with the permit issued 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. The issuance of this 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. 1900 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 or Revocation of this permit.**

Comments: System Classification & Type: III, PPBPS, GRAVITY, NA, NA

DHHS Authorized Agent: Jeremy Mickelson, REHS Signature: Jeremy Mickelson, REHS

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

**OPERATION PERMIT for an**
**ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM**

File #: 37838 Permit #: 7418 Tax Parcel #: 023-252-54

Property Owner: Jacob Mock

Job Location Address: 5944 Mt. Point Lane

City: Charlotte State: NC Zip Code: 28216

**OPERATION PERMIT CONDITIONS:**

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIe

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☐

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☒ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

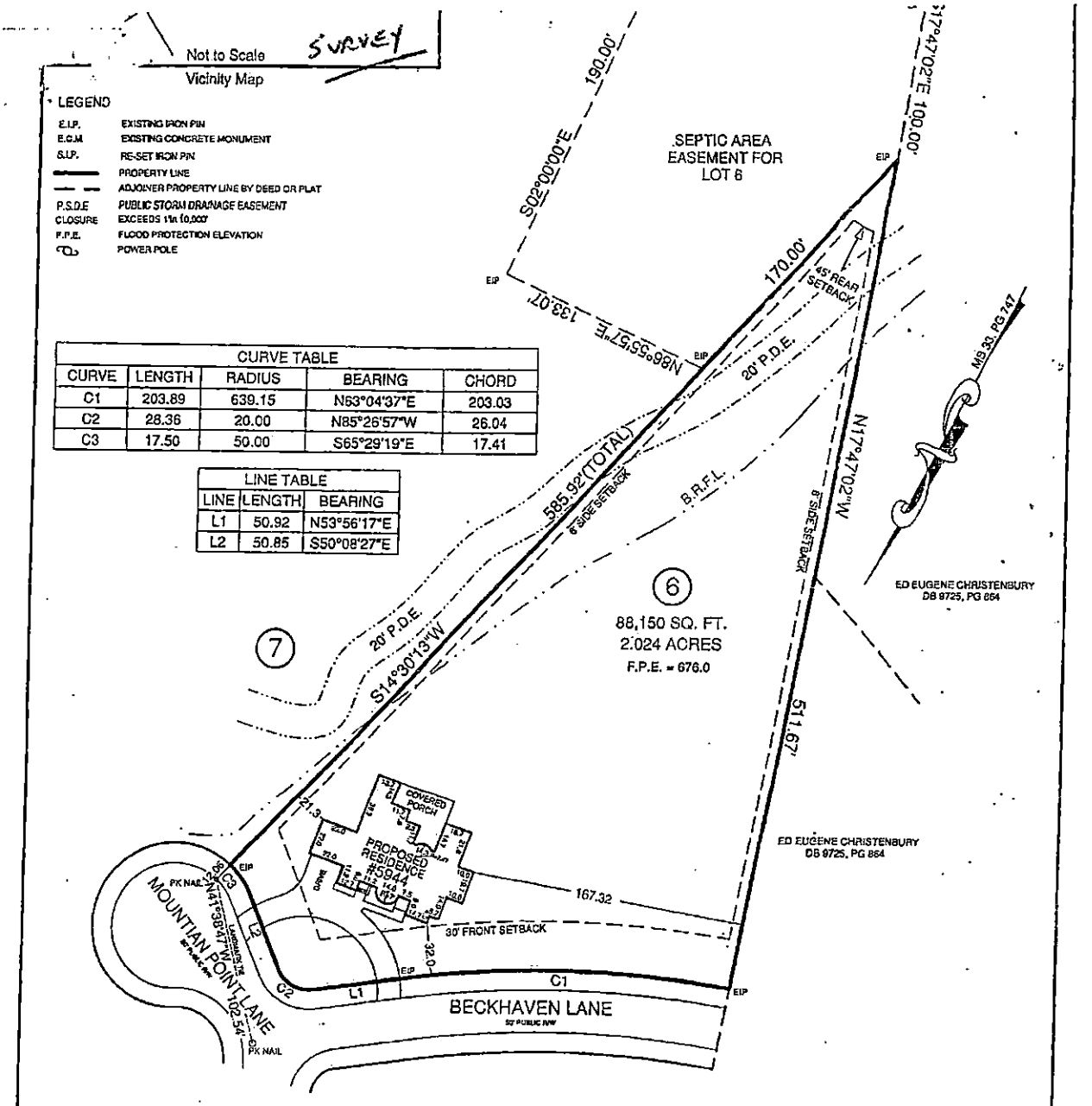
☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other: Engineer letter to be on file before OP Release

DENR Authorized Agent: Jeremy Michelone, REHS Date: 1/18/17

Signature: Jeremy Michelone, REHS




Plot Plan SURVEY

OF

Lot 6, Mountain Point Estates, Map 1

Long Creek Twsp., Mecklenburg County, N.C.

SCALE 1"= 80'

THE PROPERTY OF Dr. Agunbi

MAP RECORDED IN BOOK 33 AT PAGE 747 DEED RECORDED IN BOOK _____ PAGE _____

Drawn By:BDH

FILE:C:\LAND PROJECTS 3\Meck County\DWG\Mountain Point Estates Lot 6.DWG

*MECKLENBURG COUNTY*
*LAND USE AND ENVIRONMENTAL SERVICES*
***Payment Receipt***

**Receipt Information**

| | | | |
|---|---|---|---|
| **Date:** | 08/25/06 | **Amount:** | 150.00 |
| **Receipt #:** | 45703 | **Tendered:** | 150.00 |
| **Check / Auth #:** | CHECK 2308 | **Returned:** | 0.00 |
| **Received By:** | AIDOOJK | | |

**Account Information**

**Account #:** 200000
**Contractor:** MEDINA CONSTRUCTION
**Attn:**
**Address:** 1506 WEST MOREHEAD
**Address:**
**City/State/Zip:** CHARLOTTE, NC 28208

| Item | Description | Permit# | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 0703 | Installation/Final Approval<br>5944 MOUNTAIN POINT LANE | | 1 | 150.00 | 150.00 |

**Outstanding Balances**

| Month-To-Date | Prior Month | 30 Days | 60 Days | 90 Days | Balance |
|---|---|---|---|---|---|

# Certification Report of Septic System

at

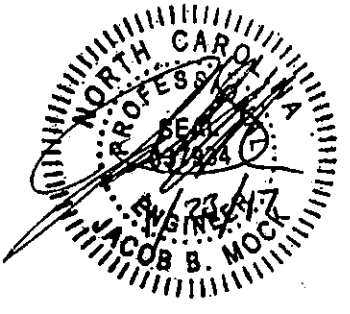
5944 Mountain Point Lane
Charlotte NC 28216

Dear Mr. Michelone:

Per the attached as-built sketch of the septic system installation at 5944 Mountain Point Lane, the modification of the design by installing two – 75 foot septic lines at each leach/septic field in lieu of three – 50 foot septic lines at each leach/septic field is acceptable and meets the intent of the engineered design.

Thank you and best regards,

Jacob B. Mock, P.E.
NC PE Lic. # 037934



TCJ CONSULTING

# SITE / SOIL EVALUATION

JOB: Mt. Ft. Estates Lot 6 PHONE: DATE:

LOCATION: PIN: COUNTY: PROPERTY SIZE:

PROPOSED FACILITY: WATER SUPPLY: On-Site Well Community Public EVALUATION: Auger Boring Pit Cut

WEATHER: ANTECEDENT MOISTURE: SURFACE WATER:

| FACTORS | PROFILE 2 | PROFILE 3 | PROFILE 9 | PROFILE 10 |
|---|---|---|---|---|
| LANDSCAPE POSITION | | | | |
| HORIZON I DEPTH | 0-11 | 0-22 | 0-6 | 0-6 |
| Color - Munsell | red br | red | br | br |
| Texture | scl | c-cl | sl-scl | scl |
| Structure | m f-s | | m | gr |
| Consistence | | m f SBK fr ss/ss | fr | fr |
| | | | | |
| | | | | |
| Boundary | | | | |
| HORIZON II DEPTH | 11-49 | 22-66 | 6-42 | 6-45 |
| Color - Munsell | red yell | yell br | yell red | yell rd |
| Texture | scl-sc | sl sbk | c-cl-scl | c-cl |
| Mottles | f-f ind sbk | | f ind sbc | |
| Structure | m f SBK | m | m-w SBK | |
| Consistence | fr ss/sc | fr ss/sc | fr ss/ss | |
| | | | | |
| | | | | |
| Boundary | | | | |
| HORIZON III DEPTH | 49-72 CB | | 42-56 | |
| Color - Munsell | red yell | | red yell | |
| Texture | sl cl-l | | sl sbk / CB | |
| Mottles | ind cbc | | ind scl | |
| Structure | w SBK-m | | w SBK-m | |
| Consistence | fr s/ss | | | |
| | | | | |
| | | | | |
| Boundary | | | | |
| HORIZON IV DEPTH | | | | |
| Color - Munsell | | | | |
| Texture | | | | |
| Mottles | | | | |
| Structure | | | | |
| Consistence | | | | |
| | | | | |
| | | | | |
| Boundary | | | | |
| SOIL WETNESS | | | | |
| RESTRICTIVE HORIZON | | | | |
| SAPROLITE | | | | |
| LTAR | 3 | 3 | 3 | 3 |
| CLASSIFICATION | Ks | Ps | Ps | Ks |
| | | | | |
| | | | | |

## 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 block
ab - angular blocky
pl - platy
pr - prismatic

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

## IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30007418 GWS File #: 3983B

**IV. Permit Conditions/Comments:**

- Easement agreement forms shall be on file and the property shall be deeded and recorded prior to issuance of Construction Authorization.
- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (60 ft. minimum) from all private wells.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The invert of the sewer pipe exiting the structrue should be kept as high as possible in order to achieve gravity flow to the drain field. A dosing tank will be required if gravity flow to the drain field can not be achieved.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michalone

Signature: Jeremy Michalone, REHS

Date Issued: 4/22/2015

Owner/Legal Agent: Jack B. Mock
Print Name

Signature: 4/30/2015

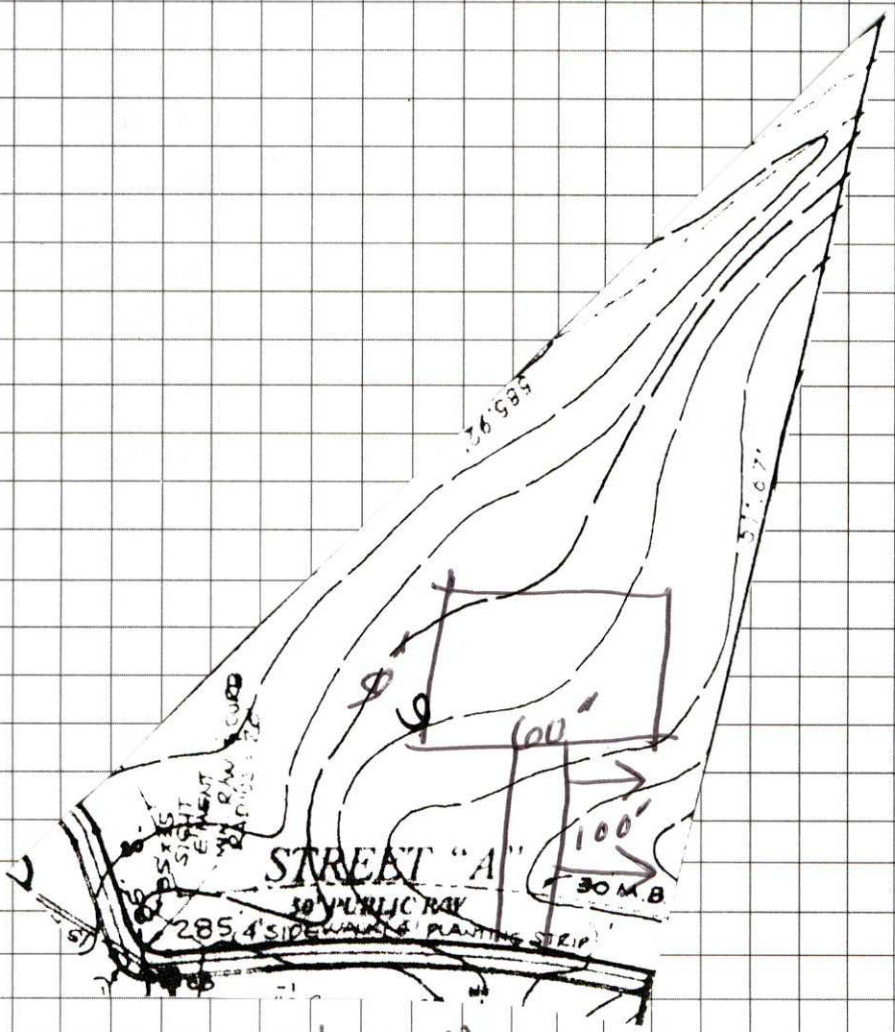
# PROPOSED PLOT PLAN

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

FILE: 3983B

TC: 023-252-33P006

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.




Lot # 6
MOUNTAIN POINT LANE

OWNER/AGENT SIGNATURE

DATE 6-15-99

APPROVAL DATE _____

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

# Mecklenburg County
## Health Department

July 2, 1999

F.G. Keith
5344 Central Avenue
Charlotte, NC 28212

Re: Lot 6 Mountain Point Lane
File: 3483B
Parcel: 023-252-33PO

Dear Property Owners:

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 .1941 **SOIL CHARACTERISTICS (MORPHOLOGY),** .1943 **SOIL DEPTH,** and .1945 **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 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 date if requested by the local health department.

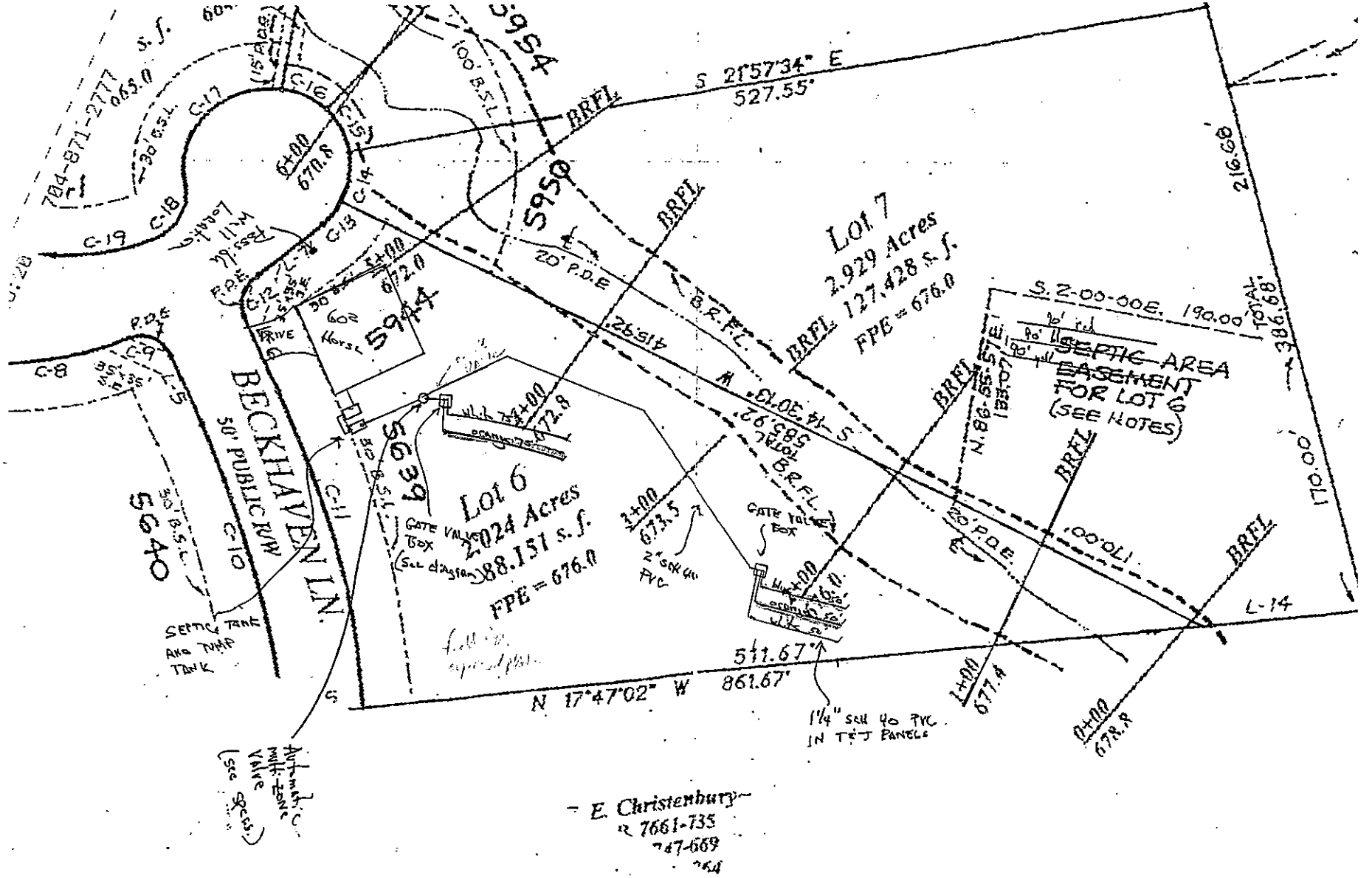
Please be advised that you have the right to an informal review by this department. You also have the right to appeal under G.S. 130A-24, and to have the appeal held in Mecklenburg County

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

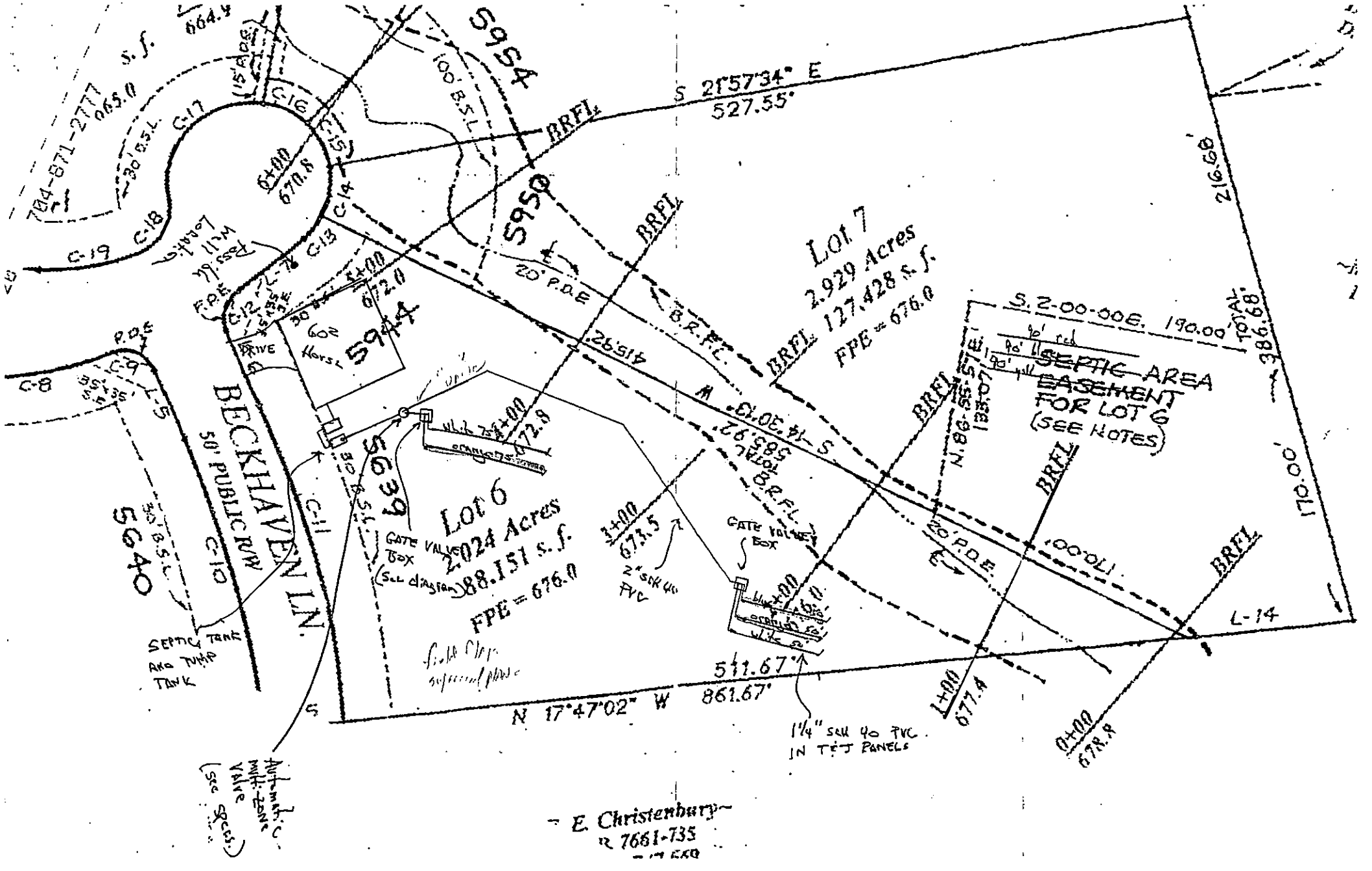
Sincerely,

Kelly Randall

Kelly Randall, R.S.
Individual Water and Wastewater Systems


BECKHAVEN LN.
50' PUBLIC R/W
C-10
Lot 6
2.024 Acres
88,151 s.f.
FPE = 676.0
Lot 7
2.929 Acres
127,428 s.f.
FPE = 676.0
BRFL
B.R.F.L.
20' P.D.E.
S 2°57'34" E
527.55'
N 17°47'02" W
861.67'
S 11°67"
S. 2-00-00E. 190.00'
TOTAL 386.68'
SEPTIC AREA EASEMENT FOR LOT 6 (SEE NOTES)
5954
5950
5944
5940
5936
SEPTIC TANK AND PUMP TANK
Automatic multi-zone Valve (see specs.)
1¼" SCH 40 PVC IN T&T PANELS
E. Christenbury
R 7661-735
787-669

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50' PUBLIC R/W
Lot 6
2.024 Acres
88,151 s.f.
FPE = 676.0
Lot 7
2.929 Acres
127,428 s.f.
FPE = 676.0
SEPTIC AREA
EASEMENTS
FOR LOT 6
(See Notes)
S 14°30'13" W
585.92'
S 21°57'34" E
527.55'
N 17°47'02" W
861.67'
511.67'
170.00'
216.68'
386.68' TOTAL
S 2-00-00E 190.00
N 86-55-51E 187.07
BRFE
BRFL
20' P.D.E.
100 B.S.L.
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