

15715 NORTH POINT RD

00145269

1/7/2008

duponbj

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

file 5026B

K.M. Tarkovich Construction, Inc.

Residential * Commercial

19 '6 Shevington Drive
Co elius, N.C. 28031
Phone umber 704-361-6873
Fax n nber 704-896-3919

Send to: Meck County Dept of Health	From: Kevin Tarkovich
Attention:	Date: 9/5/03
Office location:	Office location:
Fax number: 704-336-~~6603~~ 6629	Phone number:

☐ Urgent ☐ Reply ASAP ☐ Please comment ☐ Please review ☑ For your information

Total pages, including cover: 8

Comments:

Teresa,

Please forward as needed to release any holds on permit.

Thank You

Kevin Tarkovich

TRI-COUNTY WASTEWATER MANAGEMENT, INC.
P.O. Box 1830
INDIAN TRAIL, NC 28079
Phone: 704.821.8841
Fax: 704.821.8892

INVOICE

2850

9/5/03

BILL TO
Russell Faulkenberry
15715 North Point Rd
Huntersville NC 28078

SHIP TO

	30 days			LPP Maintenance

New Contract – 12 months	1	275.00	275.00

TOTAL DUE $275.00

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg
Agreement Number _____

AGREEMENT FOR INSPECTION OF ON-SITE WASTEWATER SYSTEM

This Agreement is entered into this 5th day of September, 2003, by and between Tri-County Wastewater Management Inc. ("Tri-County") of Charlotte, N.C., a North Carolina Corporation and Russell Faulkenberry ("Owner").

Preamble

Tri-County is contracting with the Owner to provide inspection services as described on Attachment A for the fees or charges also shown in Attachment A.

The Owner owns or controls the property upon which a ground absorption sewage treatment system ("System") is installed, such System being designated as a type II, III, IV, or V system under the Rules for Sanitary Sewage Collection, Treatment and Disposal found at 15A N.C. Admin. Code 18A.1900 et seq.; and 15A N.C. Admin. Code 18A.1961 requires that a condition of the Operation Permit for type IV and V systems be that a properly executed inspection contract between the System Owner and a management entity shall be in effect for as long as the System is in use. Tri-County is a management entity which employees certified operators of a type authorized by 15A N.C. Admin. Code 18A.1961 to manage and inspect type II, III, IV, and V systems.

In consideration of the premises and of the mutual covenants and promises contained in this Agreement, it is hereby agreed by and between the Owner and Tri-County as stipulated below.

Conditions of the Contract

A. Tri-County, in consideration of the payment by the Owner as set out in the schedule of services and charges in Attachment A, incorporated herein, agrees:

1) To provide the services set out in Attachment A according to the minimum schedule of inspections/services required by regulations for the lots or parcels set out in Attachment B.

2) To report results of the inspections to the local health department or other regulatory agency having jurisdiction as required by applicable laws or regulations.

3) If inspections indicate the need for System repairs:

a) to notify the local health department within 48 hours.

b) to give notice to the Owner of needed repairs, and, if the necessary repairs are outside the scope of the routine maintenance described in Attachment A, then at the Owner's request, Tri-County will provide an estimate and, at the authorization of the Owner, will perform the necessary repairs at Tri-County's then prevailing charges for services and materials.

4) If Tri-County's services are terminated, Tri-County will notify the local health department within 48 hours, and notify any other regulatory agency requiring notice as required.

B. The Owner, in consideration of the servic performed, agrees:

1) To pay Tri-County for its services coording to the schedule of charges set out in Attachment A.

2) Within 30 days of receipt of notic of repairs under A (3) above, the Owner must provide proof that repairs have been performed b a licensed or qualified entity and the System is functioning properly or request and autho ize Tri-County to complete the needed repairs.

3) To notify Tri-county promptly of a y emergency or malfunction which may violate environmental, health, or other laws and gulations, and to authorize immediate repair as necessary to restore the System to prope function and operation.

4) To provide and to maintain at all mes, such access to the System as is reasonably necessary for Tri-County to com y with its obligations under this Agreement.

C. **TERMS OF E AGREEMENT**

1) This Agreement shall be effectiv for one year from the date of this contract, and will be automatically renewed from year-to-year unless written notice of termination and non-renewal is given to the other party not less than 30 ays prior to the end of the then current annual contract year.

2) The real property to be serviced nder this Contract is listed on Attachment B.

3) This Agreement automatically te minates if the Operation Permit for the system is revoked and all appeals of the revocation are ex austed or time for making an appeal has passed.

4) The parties may terminate at th end of the then current term by consent of each party or by not less than 60 days written notice to t other party, and not less than 30 days notice to the local health department or other regulatory a ency having jurisdiction.

5) This Agreement may be termin ed for cause for breach, which remains unremedied after 15 days written notice to the defaulting arty.

D. **LIMIT WARRANTY**

TRI-COUNTY'S SOLE DUTIES AND RESPON BILITIES UNDER THIS AGREEMENT IS TO PROVIDE INSPECTION AND ROUTINE MAINTENANCE NLY AS SPECIFIED IN THIS AGREEMENT. INSPECTIONS WILL COMPLY WITH APPLIC BLE CODES, LAWS, AND REGULATIONS IN FORCE AT THE TIME OF THE INSPECTION AND REPOR . WORK AND MATERIALS USED IN REPAIRS ARE WARRANTED ONLY TO BE OF GOOD WOR MANSHIP, FREE OF DEFECTS, AND CONFORM TO THE SYSTEMS SPECIFICATIONS AND EQUAL TO THE ORIGINAL PARTS AND EQUIPMENT. THE OWNER'S SOLE REMEDY UNDER THIS EXP ESS WARRANTY IS REPAIR OR REPLACEMENT AND CONSEQUENTIAL DAMAGE OR DAMAGES OR DELAY ARE LIMITED TO TOTAL SUMS PAID TRI-COUNTY UNDER THIS AGREEMENT FOR TH E PARTICULAR LOT OR PARCEL FOR THE THEN CURRENT YEAR. ALL OTHER WARRANTIES , EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR PAR CULAR PURPOSE, ARE EXPRESSLY AND SPECIFICALLY EXCLUDED. REPAIRS, REP NCEMENTS, ADDITIONS AND CHANGES BY OTHERS TO THE SYSTEMS COVERED BY THIS AGR EMENT WITHOUT PRIOR NOTICE TO TRI-COUNTY OR ACCEPTANCE OF THE WORK BY TRI-COU TY DURING THE TERM OF THIS AGREEMENT VOIDS ANY WARRANTY GRANTED HEREIN AS TO TRI-COUNTY.

ATTACHMENT A

1. **COST:** INITIAL CONTRACT YEAR - $ 75.00
RENEWAL YEARS - $ 225.00

a. The Owner shall pay to Tri-Coun the aforementioned sums for each parcel listed on Attachment B. The initial annual fees are eyable upon the execution of the contract. Annual billings will be made thereafter and payab within 30 days of billing. The annual billings will be made on the anniversary dates. The ann al fees may be amended upon 60 days advance notice to the Owner. The Owner shall pay to Tri-C unty the normal and customary fees for any authorized work performed on the System as a resul of non-scheduled service or maintenance calls. These fees are due and payable within 30 days billing. Payments due to Tri-County and unpaid by the Owner after 30 days shall accrue interest om the due date until paid at a rate of 1.5 percent per month.

2. **PERFORMANCE DUTIES:**

- Inspection procedures and services that eet or exceed all state and local regulatory requirements.
- Inspections performed: X bi-annually ___quarterly ___monthly ___weekly ___annually
- Inspection report copies are sent to the h alth Department as required.
- Inspection report copies are sent to the h meowner at each inspection.
- Emergency service calls at no additional harge.
- 24-hour accessibility through toll free 80 number or digital pager.
- The Owner will be advised with the need or pumping the individual septic tanks.

E. **MISCELLANEOUS**

1) Transfer of rights, responsibilities, and duties under this Agreement by either party shall be valid only on written notice and consent al ined by both parties, which consent shall not be unreasonably or arbitrarily withheld.

2) Tri-County may perform its duties and responsibilities by subcontract but Tri-County will remain directly liable and responsible to t Owner under the terms of this Agreement.

3) Waiver of default or a breach of t Agreement by either party shall not operate nor be construed as a waiver of further or subse uent defaults or breach of this Agreement. Failure to take action in any default or breach does not t er action on such default at any time subsequent to such breach or default.

4) This Agreement constitutes the e tire agreement of the parties, incorporating, and superseding all prior representations and negotiations and may not be changed or amended except in writing signed by the parties. The Agr ment shall be interpreted under North Carolina law. Any part of the Agreement declared void, ille d, or unenforceable will not affect other provisions of the Agreement.

5) Disputes arising under this Agre ment shall be determined by any method of Alternative Dispute Resolution the parties choose, i cluding but not limited to, mediation or arbitration, under the Uniform Arbitration Act of North Car na or its equivalent, or such means or methods as the parties agree to in writing.

6) Notices are deemed delivered if delivered in person; by certified or registered mail; by courier; or delivery service, if properly a epted, charges and postage prepaid, as follows:

Owner
Russell Fa Kenberry
15715 Nort Knight Rd
Huntersvill NC 28078

Tri-County Wastewate Management, Inc.

P. O. Box 1830
Indian Trail, NC 28079

Health Department:
- Mecklenburg DEH
- 700 N. Tryon St., #211
- Charlotte, NC 28202

Each party has executed this Agreement w full power, authority, and legal right to enter into; to bind itself to the rights, duties and responsibilities u er this Agreement, which is binding on the parties, their successors and assigns, heirs and personal r esentatives, on the date first above written.

Attest:

C ner:

Attest:

-County Wastewater Management, Inc.

:

tle: President

lorth Carolina Certified Operator

ly:

license number: 98 12248
SI 23910
2WW 24966

TRI-COUNTY
PAGE 6 OF 6 PAGES

ATTACHMENT B

1. **PHYSICAL ADDRESS OF SYSTEM(S)**

a. 1515 North Point Rd
Huntersville NC
Lot 13

b.

c.

d.

CERTIFICATE OF COMPLETION/OPERATION PERMIT

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

FILE: 5026B DATE: 6/2/03

TC: 001-452-69 ☒ CRT

SERIAL 19122

Name of Owner Russell & Jennifer Faulkenberry Juris.: _____

Address of Property 15715 North Point Road

Inspection Data:

Tank Material PCC

Total Length of Drainfield 210'

Number of Lines 3 @ 70'

Cover Depth 14"

Water Supply Source Municipal

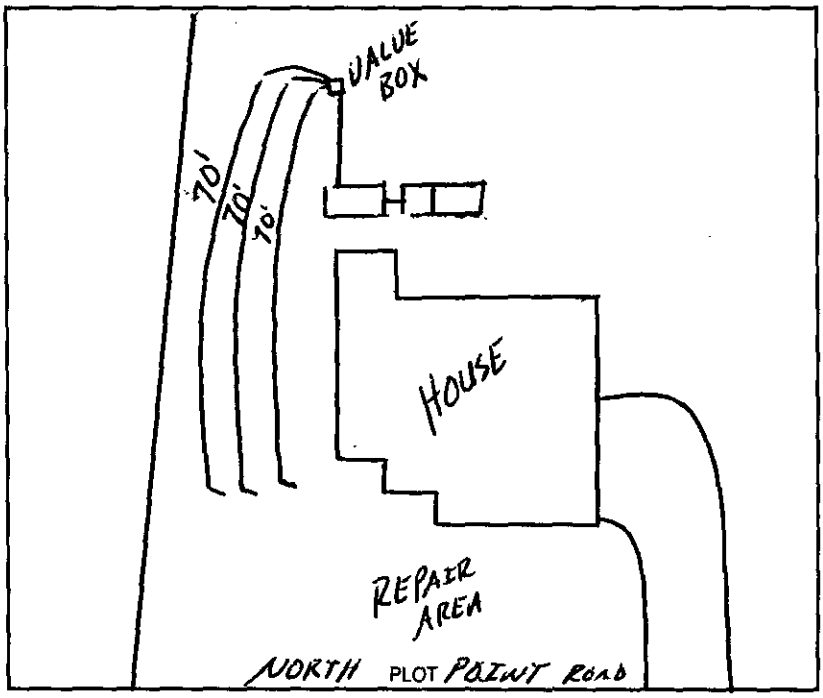
Distance to Water Source NA

Excavation Inspected 6/2/03

Tank(s) Inspected 6/2/03

Wash Line Inspected NA

High Water Alarm Inspected 6/2/03



Design 1500 ST, 1000 DT, PI, MOD, 630 SFT, Panel/Block CTR# Christenberry

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

☒ installed or constructed ☐ altered or repaired

☐ in accordance with the permit issued ☒ as detailed in the plot above

and meets the provisions of 15A NCAC 18A. 1900, "Laws And Rules For Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. This issuance of this

☐ Certificate of Completion ☒ Operation Permit

does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1990 in addition to those listed below under "COMMENTS." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the suspension/revocation of this permit.

COMMENTS: Three Bedroom House

3 Lines x 70' x 3

Type IIIae LPP Pressure Dosed Panel Block system

Jenny Mickler R.S.

Environmental Health Specialist

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

INSTALLATION, CONSTRUCTION, ALTERATION, AND/OR REPAIR APPROVAL

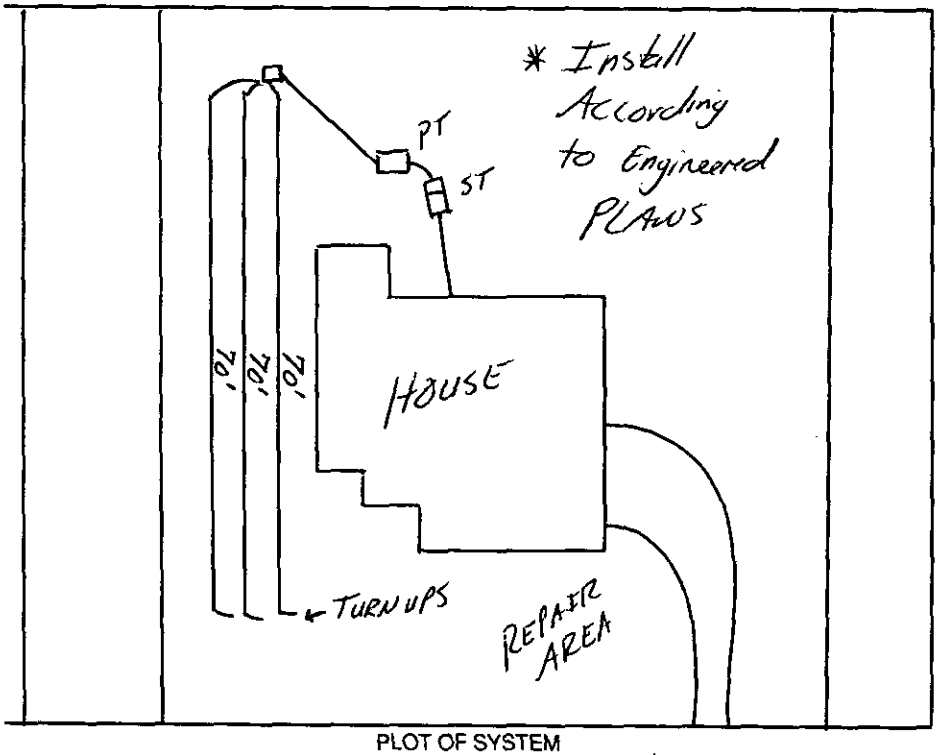
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 5026B DATE: 4/10/03

TC: 001-452-64P0 L

SERIAL 19334

Permission is hereby given to ____ (Install) or Construct, ____ Alter or Repair the individual septic tank wastewater treatment system with subsurface, soil absorption, effluent discharge as specified herein at the described location. This permit is granted based upon the information supplied in the application dated 7/20/02. All work shall be completed on or before 5/7/03, after which date this permit shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of the granting of this permit. A Certificate of Completion or an Operation Permit must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now or hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.



PLOT OF SYSTEM

NORTH POINT ROAD

Liquid Capacity of Septic Tank 1500 gallons

Liquid Capacity of Dosing Tank 1000 gallons

Tank Construction PCC

Trench Depth 30"

Absorption and/or Nitrification Lines:

Trench Width 3' feet

Trench Walls Scored and Porous yes - LIME

Total Line Length 210' feet

Number of Lines 3 x 70'

Depth of Stone NA inches

Distance from House >5' feet

Distance from Property Line >10' feet

Distance from Well >100' feet

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

NAME OF OWNER Russell & Jennifer Faulkenberry

LOCATION OF PROPERTY 15715 North Point Road

Comments: Three Bedroom House

Type III LPP Pressure Dosed Sand Block System

Tommy Nicholson R.S.
Environmental Health Specialist

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

Project # 14314

FEE: 150 **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION** Septic ACS Proj
DATE: 9/5/03 **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

DATE: 15715 PERMIT NO: 5026B
PARCEL NO: 001-452-69

JOB LOCATION ADDRESS: Lot 1B North Point Road
PROPERTY OWNER: Russell and Jennifer Faulkenbury
BUILDING CONTRACTOR:
SUBDIVISION NAME: Brown's ADDITION
AUTHORIZATION ISSUED BY: Jimmy Michalec R.S. DATE: 9/6/02
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 5026B, 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 on file before C.A. Release
Certified Operator Agreement before O.P. Release

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 9/20/02

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	09/05/03	**Amount:**	150.00
Receipt #:	18272	**Tendered:**	0.00
Check / Auth #:	VISA 056425	**Returned:**	0.00
Received By:	JONESNY		

Account Information

Account #: 200000
Contractor: FAULKENBERRY, RUSSELL & JENNIF
Attn:
Address:
Address: 15715 nORTH POINT ROAD
City/State/Zip: HUNTERSVILLE, NC 28078

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Installation/Final Approval 15715 NORTH POINT RD		1	150.00	150.00

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

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

Permit Number: 5026B

CONDITIONS OF IMPROVEMENT PERMIT

Tax Number: 001-452-69

- The IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

Basement	___ Yes	✓ No	___ Partial Basement	
Type Primary Wastewater System Type (circle one) I II III (IV) V VI	___ Conventional ✓ Prefabricated, permeable block panel system ___ Shallow Placed Conventional	___ Low Pressure Pipe ___ Large Diameter Pipe ___ Fill ___ Other	___ Innovative or Experimental: ___ IWWS-93-1 ___ IWWS-93-2 ___ IWWS-94-1	
0.3 Long-term acceptance rate	360 Max gallons/day wastewater flow	630 Absorption Area (sq ft)	9' Trench spacing (min. on centers)	
NO Serviced by private well	1500 Gallon septic tank	210 Total trench length (ft)	36" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)	
3 Bedrooms in residence	1000 Gallon pump tank	N/A Depth of stone SAND BACKFILL		
Any surface waters present: NO Type:		Minimum separation distance:		
Site modifications required:				
Additional Conditions: Agreement forms on file before C.A. Release Certified Operator Agreement before O.P. Release Install according to approved plans on file.				
Repair Area System Type Type (circle one) I II III (IV) V VI	___ Conventional ✓ Prefabricated, permeable block panel system ___ Shallow Placed Conventional	___ Low Pressure Pipe ___ Large Diameter Pipe ___ Fill ___ Other	___ Innovative or Experimental: ___ IWWS-93-1 ___ IWWS-93-2 ___ IWWS-94-1	
630 Absorption Area (Sq ft) 210 Total Trench Length (Ft)	N/A Depth of Stone Trench SAND BACKFILL	9' Trench spacing (min. on centers)	36" 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.

Jerry McClain L.S. 9/6/02
DEHNR Authorized Agent Date

Owner/Agent Signature 9/20/02
Date

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 214
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

IWWS-100195

FOR REGISTRATION JUDITH A. GIBSON
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC
2002 SEP 26 12:17 PM
BOOK:14124 PAGE:396-398 FEE:$20.00
INSTRUMENT # 2002186912

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 # 5026B
PARCEL # 001-462-69

The undersigned, D. RUSSELL FALKENBERRY, owner of property located at 1575 NORTH POINT ROAD — Lot 1B, (the "site") and described in an instrument recorded in Book 37 at Page 315, 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:

This instrument was prepared by: K. M. TARKOWICH CONSTRUCTION INC.
Mail after recording to: 19516 SHEVINGTON DRIVE
CORNELIUS NC 28031

Residential Subsurface Wastewater Treatment and Disposal System Design

for

Lot 1B North Point Road
Huntersville, North Carolina

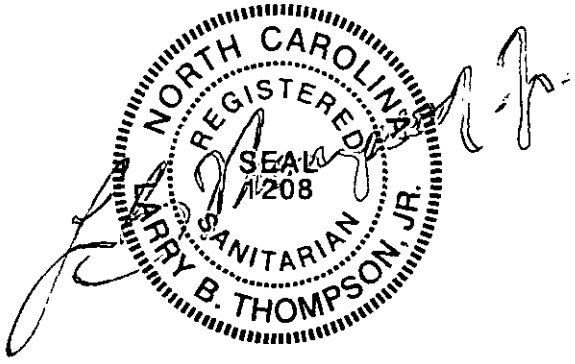
MCHD File # 5026B
Tax Parcel # 001-452-69
September 01, 2002

Prepared for:

Russell and Jennifer Faulkenberry
18581 Vineyard Point Drive
Cornelius, NC 28031

Prepared by:

Larry Thompson, R. S.
114 Orchard Ridge Road
Locust, NC 28097-8748
Cell: 704-668-1191
Home: 704-888-1796
Fax: 786-549-0555
lthompson@bellsouth.net



CC: Mr. Jeremy Michelone, R. S.
MCHD – IWWS

Details

In an application for an Improvement Permit filed with the Mecklenburg County Health Department (MCHD) dated July 20, 2002, the subject property was proposed to be developed with a single family 4-bedroom residence served by municipal water. Based upon this information, a soil and site evaluation was conducted by the MCHD on August 1, 2002 where the 0.4591 acre lot was determined to be "Unsuitable" for the installation of a conventional subsurface wastewater treatment and disposal system according to Section 15A NCAC 18A .1945 "Available Space".

Upon further investigation, a limited area of "Suitable" Group IV soils have been identified along the left (southern) property line, as seen when facing the lot from North Point Road, which would allow for the installation of a pressure-dosed pre-fabricated permeable block panel system (PPBPS) for a 3-bedroom residence. It is the desire of the owners that the MCHD consider reclassifying their lot as "Suitable", allowing for the issuance of an Improvement Permit, based upon the following proposal.

Location

The property is located at Lot 1B, North Point Road, in the town of Huntersville, North Carolina. Traveling north on I-77 out of Charlotte, take exit 25 and turn right onto NC 73 (Sam Furr Road), right onto Terry Lane and right onto North Point Road. The subject property will be the second parcel to the left.

References

Laws and Rules for Sewage Treatment and Disposal Systems. 15A NCAC 18A, Section .1900. Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section. August 17, 2000.

Design, Installation and Maintenance of the T & J Panel Wastewater Treatment System; Sixth Edition, published by T & J Panel.

Design and Installation of Low Pressure Pipe Wastewater Treatment Systems; by Craig Cogger, Bobby Carlisle; Dennis Osborne and Ed Holland. Published by UNC Sea Grant College Pub. UNC-SC-82-03, May 1982.

Onsite Wastewater Treatment and Disposal Systems; EPA 625/1-80-012 Design Manual, October 1980, Chapter 7.

Plans and Specifications

Septic Tank

- The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound and 1500 gallons in capacity.
- The septic tank will be fitted with an approved effluent filter and riser for easy access and periodic maintenance.
- It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery, thereby assuring that the tank has had time to properly cure and is not cracked or "honey combed".

Pump Tank

- The pump tank shall be State approved, of one-piece construction, watertight, structurally sound and 1000 gallons in capacity. Again, it is the responsibility of the septic tank contractor to thoroughly inspect the pump tank prior to accepting delivery.
- The pump tank shall have an access riser that extends at a minimum of 6 inches above finished grade.
- The pump and alarm controls shall be provided with manual circuit disconnects within a watertight, corrosion resistant, Nema 4X rated control panel. The control panel must be securely mounted outside, adjacent to the pump tank riser and at a minimum of 12 inches above finished grade. Pump and float control wiring should be long enough to reach from the tank to the control panel without splicing, routed through wire conduit, and sealed at the openings within the pump tank as well as the control panel enclosure. It is paramount that the conduit is properly sealed to prevent the escape of flammable gases from the pump tank. Furthermore, there must be two electrical circuits for the pump tank controls: one for the pump and one for the alarm controls.
- The pump tank shall have a properly functioning high water alarm incorporated into the control panel. The alarm circuit shall be supplied separate from any pump overload and short circuit devices. The alarm shall be both audible and visible by the system users.
- The float switch for the high water alarm should be mounted at a location slightly above the "pump on" elevation for the pump float control switch. The high water alarm float switch shall not be set more than 3 inches above this elevation.
- Pump float(s) shall be mounted so that the effluent at the end of a pump cycle is above the top of the effluent pump. The septic contractor must determine pump draw down and set the float switch accordingly.
- Float switch tie downs must be made of a corrosion resistant material. Do not use electrical tape or metal hose clamps to secure these switches. Floats should be mounted on a separate "float tree" rather than the pump supply line (see pump tank detail).
- The pump must be placed on two 4-inch concrete blocks to allow for some settling of solid particulates within the pump tank.

Pump Tank Effluent

- The pump discharge piping shall be fitted with an effluent filter. The filter must be equivalent to the GAG Sim Tech Filter, Boyne City, Michigan, 49712, and telephone: 1-888-999-3290. The contractor must assure that the filter is equipped with an STF 102 Filter Screen, an STF 103 Wrench, an STF 104 Sock, an STF 101 Pressure Alarm Switch and a STF 107 Tank Alert alarm. This device provides a very high degree of filtration and is available through Confederate Sales Associates, 8025 Brooknell Terrace, Charlotte, NC 28270, telephone: 704-364-1372.

Pipe and Fittings

- All discharge piping, supply lines, valves and disconnects should be made of PVC.
- All joints must be properly "welded" utilizing the appropriate PVC cement for each application.
- The supply line from the pump tank to the pressure manifold shall be 2 inch Schedule 40 PVC.
- The lateral distribution lines shall be 1 ¼ inch Schedule 40 PVC. Holes in the laterals should be drilled on site and at the 10 and the 2 o'clock position (one hole per panel). Lateral hole size is 5/32 of an inch.
- There shall be a threaded PVC union above the pump to facilitate easy removal of the pump for maintenance or replacement.

- The end of each lateral is to be provided with a "turn up", contained within a turf/gate valve box, that provides above ground access for periodic clean out and pressure head adjustment. Utilize (2) 45-degree elbows rather than one 90-degree elbow for each turn up to make future cleaning easier.

Supply Manifold

- The control valves (gate valves) for each lateral distribution line shall be contained within one manifold box/vault of adequate size. The box should be placed upon a gravel base.
- The supply manifold conveys effluent from the pump to the lateral distribution lines.
- The supply manifold should be constructed by connecting a series of (3) 2" x 2" x 1 ¼" tees to the 2 inch supply line (see pressure manifold detail).

Backfill

- Backfill sand shall be a clean, washed, medium sand that is naturally occurring and falls within the gradation of ASTM C-33 specification (used in the ready mix industry and is readily available).

Drainfield Installation

- The drainfield has been previously laid out on-site utilizing metal stemmed flags. Once this area has been approved by the MCHD, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the MCHD for a preconstruction conference at which time the drainfield area will be re-verified and a Construction Authorization issued.
- Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition. If the installer has doubts as to whether or not the drainfield area is dry enough to begin construction, the Mecklenburg County Health Department (MCHD) should be contacted for permission to proceed with the installation.
- The specified system is a Type IVa, pressure dosed, pre-fabricated permeable block panel system – specifically the 16 inch high panel system manufactured by T&J Panel Wastewater Treatment System, Patent No. 4013559; telephone: 1-800-222-2577. The installer must follow the manufacturer's guidelines for installing the T&J Panel System and should request an installation manual from the manufacturer prior to beginning construction.
- The drainfield consists of (3) lateral trenches to be constructed 3 feet wide by 70 feet in length. It is essential that the lateral trenches be constructed on contour with the land, with each trench being excavated level from beginning to end. The use of a tripod mounted engineer's level is essential to assure that each trench is constructed as level as possible.
- The maximum trench depth for this system shall be 36 inches and each trench shall be placed on 9 foot centers.
- Once trenches are dug, the side walls shall be raked and a light dusting of lime applied.
- Backfill the trench with 6 inches of sand and level to grade. Once leveled, place 1 x 4 or 6 inch boards on top of the sand the entire length of each trench. Once the grade boards have been set, the panels may be set into the trench. The panels should be placed 6 inches apart.
- Once the panels have been set, line the top chamber of each panel with 10 – 12 pounds of clean particle sand (medium sand blasting sand). Coverage depth should be approximately 1 inch thick. *Please note that this sand is not the same material specified for backfill.*
- Tar seal rope should be placed in the "U" outs of each end of the panel to form seals. Once the tar rope is in place, the 1 ¼ inch Schedule 40 PVC laterals can be added and the seal completed by the addition of more tar rope on the top and sides of the pipe. Now that the connection and seals are complete, a block cap is placed on each end of the panel so that all openings are covered.

- The end of each lateral should be fitted with a short turn up consisting of (2) 45-degree elbows topped by a threaded female coupling with cap. Each turn up must be fitted with a turf/gate valve box with lid fitted flush to finished grade.
- Once the lateral has been installed and the panels closed, the trench is ready to be backfilled to the top with the sand used in the trench bottom. At this point, the trenches should be left open for the final inspection by the Mecklenburg County Health Department.

Proper Operation Check

- After all components of the waste water disposal system have been installed and connected, the system shall be checked for proper operation.
- With the electrical power turned off, fill the pump tank with water until the liquid rises to a level high enough to activate the high water alarm float. Turn on the electrical power. The alarm, alarm light and pump should activate at this time. Turn off the electrical power once these checks have been performed and prepare to set the head pressure at the manifold box.

Pressure Head Adjustment

- The pressure head must be adjusted to match the design specifications. The pressure head is measured by the height of the liquid coming from the turn ups at the end of each lateral when the pump is running (utilizing stand pipes).
- Prepare a length of pipe (stand pipe), cut to the desired head pressure height and fitted with a threaded adapter that will screw into the turn up couplings at the end of each lateral. Thread the stand pipes into each lateral and then turn the power on to the pump, allowing the water to rise within the stand pipes. Adjust the gate valves within the supply manifold box to achieve the specified head pressure (liquid height in the stand pipes should equal the design head pressure).
- Once the pressure head has been adjusted, allow the pump to run through the remainder of the cycle. The pump float switch will automatically turn the pump off if it is operating properly. Make sure that the effluent pump is completely submerged in the remaining water, making adjustments to the float switch(es) as needed. This completes the checks for proper operation of the pump, alarm and float switches.
- At this point, the standpipes may be removed and replaced with the threaded turn up caps.

Final Landscaping

- The drainfield shall be shaped to shed rainwater and be free from low spots.
- The entire area of the drainfield should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

Maintenance

Operation and Maintenance

The designed system is classified as a Type IVa wastewater treatment and disposal system and will require ongoing maintenance. State regulations require that a system of this type be managed by a person certified by the North Carolina Department of Environment and Natural Resources to operate subsurface wastewater systems (Section .1961 Maintenance of Sewage Systems). A "Maintenance Contract" between the system owner and a Certified Operator will be required by the MCHD prior to the issuance of a final system approval or Operation Permit.

- The minimum inspection/maintenance frequency for a Type IVa system is once every 6 months by the Certified Operator with annual reporting to the local health department. The local health department is required to inspect the system once every 3 years.
- The septic and pump tanks shall be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 1/3 of the volume of the tank. In some situations, the tanks may need to be pumped more frequently; for example, if you are using a garbage disposal, it is recommended that the septic and pump tanks be cleaned out annually. Regardless, the Certified Operator will be able to advise when it is necessary to pump out tank solids.
- Pressure head for laterals should be checked and adjusted semi-annually, flushing with clean water as necessary to remove any accumulated solids.
- The effluent filters should be inspected semi-annually. When it becomes necessary to clean the effluent filters, the filters should be removed and the accumulated debris washed back into the septic or pump tank – not onto the lawn.
- All piping and valves should be inspected semi-annually for damage and corrections/repairs made immediately.
- The pump and float controls/switches should be inspected semi-annually to assure proper operation
- The drainfield area should be maintained to prevent over growth of vegetation. Any damp areas, leakages or malfunctions should be addressed immediately.
- Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

<u>Suggestions to the Homeowner</u>

- As previously mentioned, if you plan to use a garbage disposal in your home you should plan to have your septic and pump tanks cleaned out annually. The ground up garbage adds large amounts of solids into a septic tank that tend to degrade at a very slow rate.
- Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes and solid paper wastes) should never be put into a septic tank.
- Used motor oil or any oily liquids should not be disposed of in a septic tank.
- Be aware of the amount of water that you are using in your home. Water saving fixtures and devices can be installed on sinks, toilets and showers to reduce the volume of wastewater that you are sending to your drainfield.
- Run dishwashers and washing machines only when you have a full load.
- Use liquid detergents. Powdered detergents have binding agents in them that tend to solidify in the wastewater disposal system.
- Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drainfield.
- Do not use chemical additives in your system. Various studies have indicated that they do not increase the biological activity that naturally occurs in the septic system and, in some cases, certain additives have been found to be detrimental to the life of a system.
- It is a good idea to post the contact information of the Certified Operator for your system somewhere within the house. In the event of a "High Water Alarm", you will want to contact the Operator for proper instruction as well as to request that an emergency inspection be performed.
- Finally, taking good care of your septic system will help to assure that you experience years of trouble free service at a relatively low cost. On-site wastewater treatment and disposal is still the most environmentally friendly method of treating residential/commercial waste and you should keep your system in use for as long as it is properly functioning! If you have additional questions, please feel free to contact your system designer or the MCHD.

Design Specifics

Lot 1B, North Point Road

Daily Design Flow:	360 GPD – 3 bedroom house
Septic Tank Size:	1500 gallons (2 compartments)
Pump Tank Size:	1000 gallons (one piece)
Effluent Loading Rate:	Design = 0.3 GPD per sq. ft. (50 % reduction for the PPBPS)
Supply Length and Diameter:	Approx. 70 feet of 2 inch Sch. 40 PVC (please see note at the bottom of this page.)
Number and Size of Laterals:	(3) 1 1/4 inch x 70 foot laterals
Hole Size:	5/32 inch
Hole Spacing:	1 per panel = 48 total
Dosing Volume:	172.8 gallons per dose
Flow Rate Through System:	24 gallons per minute
Elevation Head:	10.1 feet (may vary, please see note at the bottom of this page)
Pressure Head:	3 feet
Pump Requirements:	24 GPM at 10' of head, min.
Depth of Water Pumped:	Dependant upon individual tank measurements, check with manufacturer. (1 cu. Ft. of water equals 7.5 gal.)
Pump Run:	7.2 min.
Check Valve:	Yes
Vapor Lock Hole:	Yes (A vapor lock hole can reduce vibrations in the discharge pipe upon start up and shut down)

*Please note that supply line and elevation head measurements are approximate. It is the contractor's responsibility to confirm these values based upon the actual house and plumbing location. If there is a discrepancy, contact the system designer prior to beginning construction.

Tax ID Number: 001-452-69 Scale:

Location: Lot 1B, North Point Road

Date: September 1, 2002 Page:

Calculations

Design Flow: 3 bedrooms @ 120 GPD = 360 GPD

LTAR: 0.3 Gallons per Sq. Ft.

360/.3 = 1200 sq. ft. x .05 (PPBS) = 600 sq ft/3 = 200 L.n. Ft.

Drainfield: 210 Linear Feet

210/52" per unit = 48 Panels

Pressure Head = 3'

Hole Size = 5/32" @ 3' Head = 0.5 Gallons Per Minute

Flow Through System: 48 Panels x 0.5GPM = 24 GPM

Dose Volume: 48 Panels x 3.6 Gallons = 172.8 Gallons

Pump Run Time: 172.8/24 = 7.2 Minutes

Drain Down: Based upon individual pump tank *

Ex: 9 feet wide x 5 feet long = 108" wide x 60" long = 6480 sq. inches x 1 inch (height) = 6480 cubic inches

Since 1 gallon contains 231 cubic inches, then this pump chamber contains 6480 in^3 x 1 gallon/231 in. = 28.1 gallons per inch

* It is the contractor's responsibility to calculate pump down in inches and adjust pump float accordingly.

Tax ID Number: 001-452-69

Scale: 1" = 30'

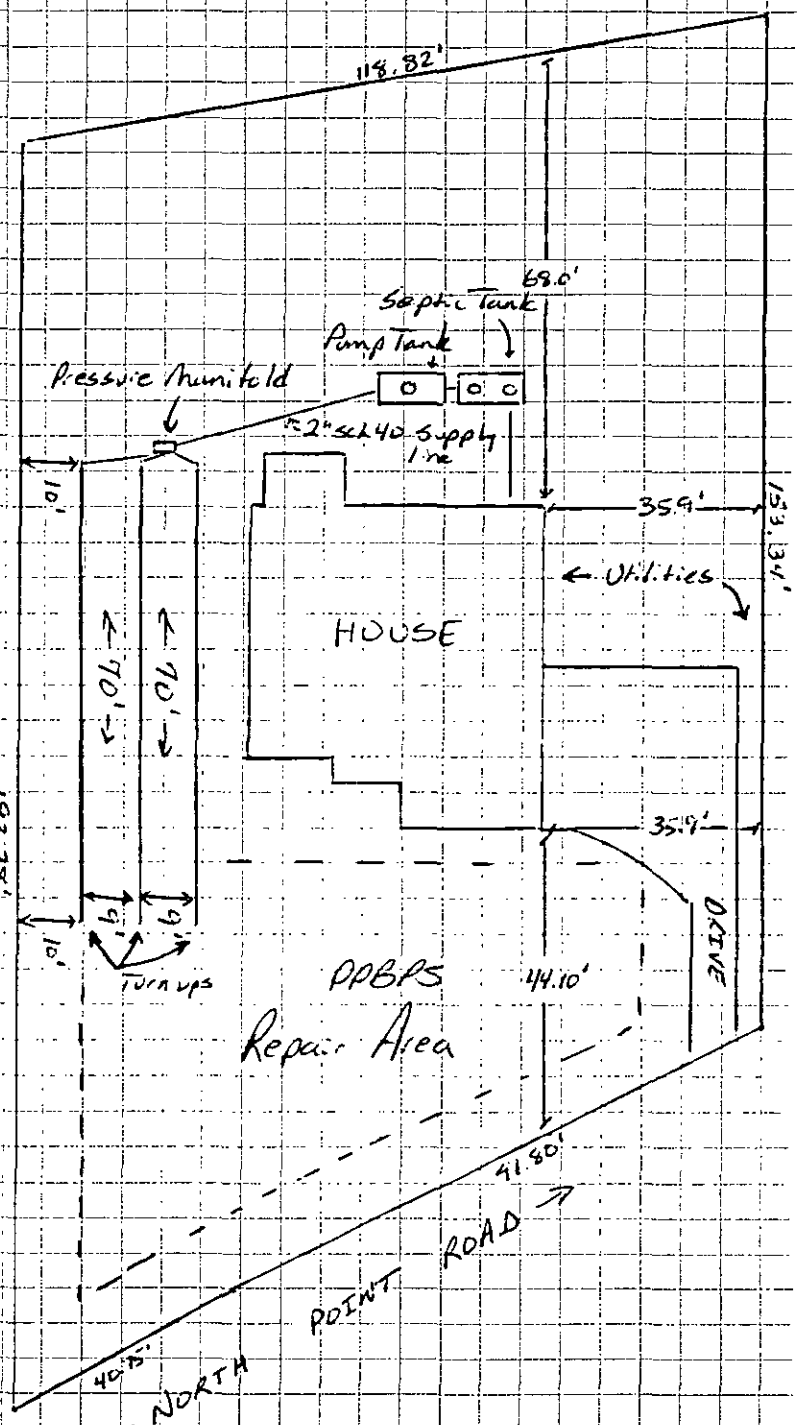
Location: Lot 1B, North Point Road

Date: September 1, 2002

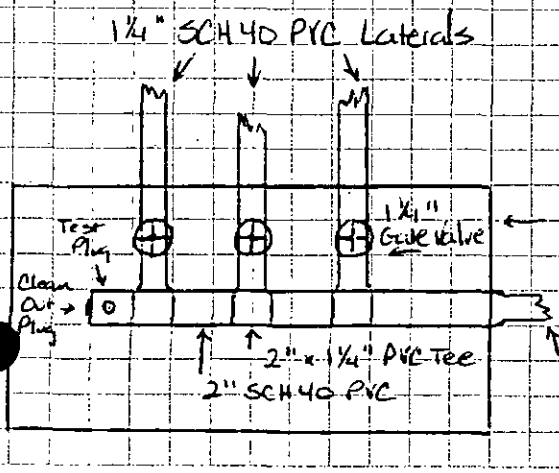
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COMMENTS

- Keep drainlines level and on contour with the land.
- (3) 3'w x 70'l x 3'd drainlines.
- Place all 3 gate valves in (1) pressure manifold box.
- Use a clean washed, medium grit sand for backfill (ASTM C-33 spec)
- Line top chamber of each panel with 10-12 pounds of clean particle sand (medium sand blasting sand).
- System will require 4/8 panels.
- Trenches to be spaced 9' on centers.



Pressure Manifold Detail



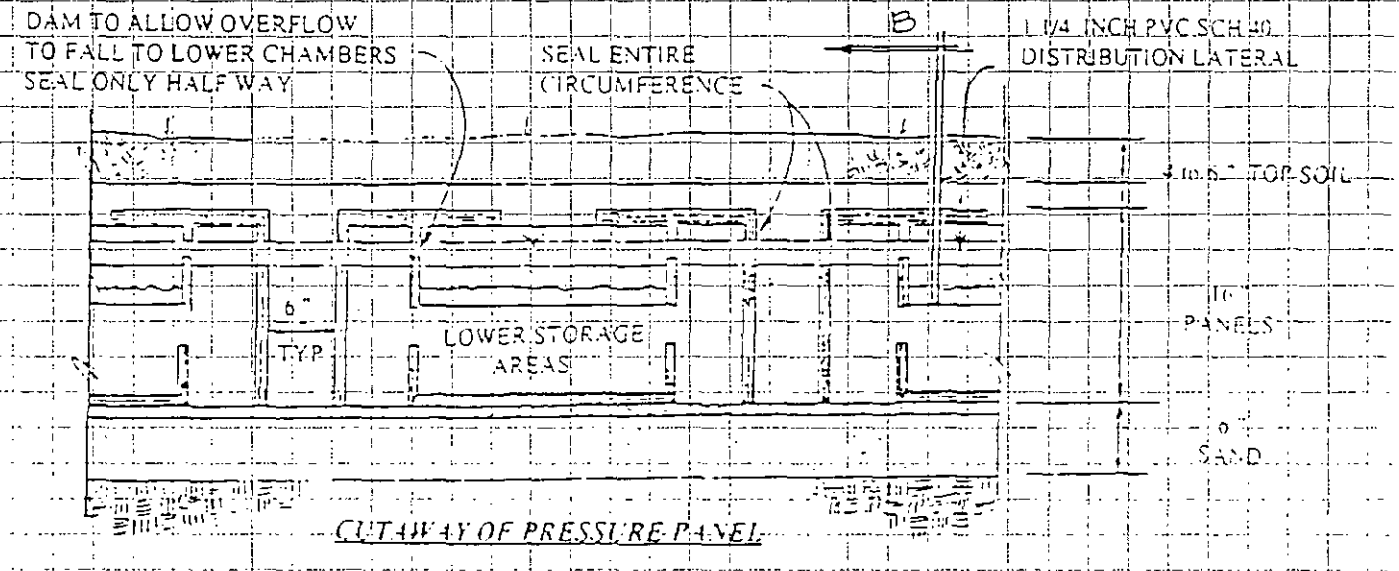
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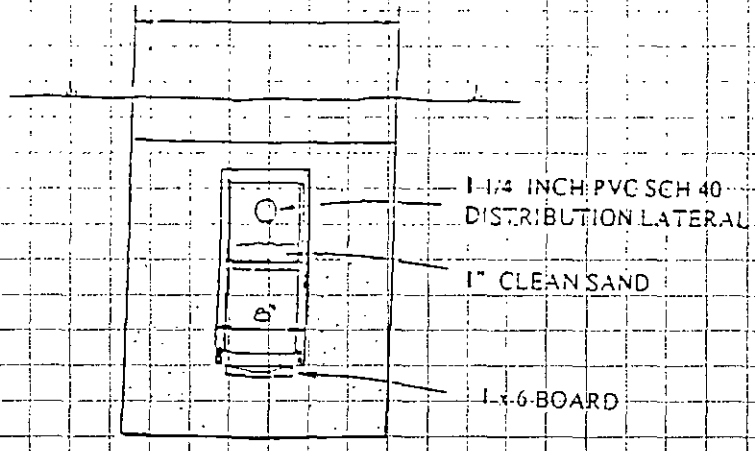
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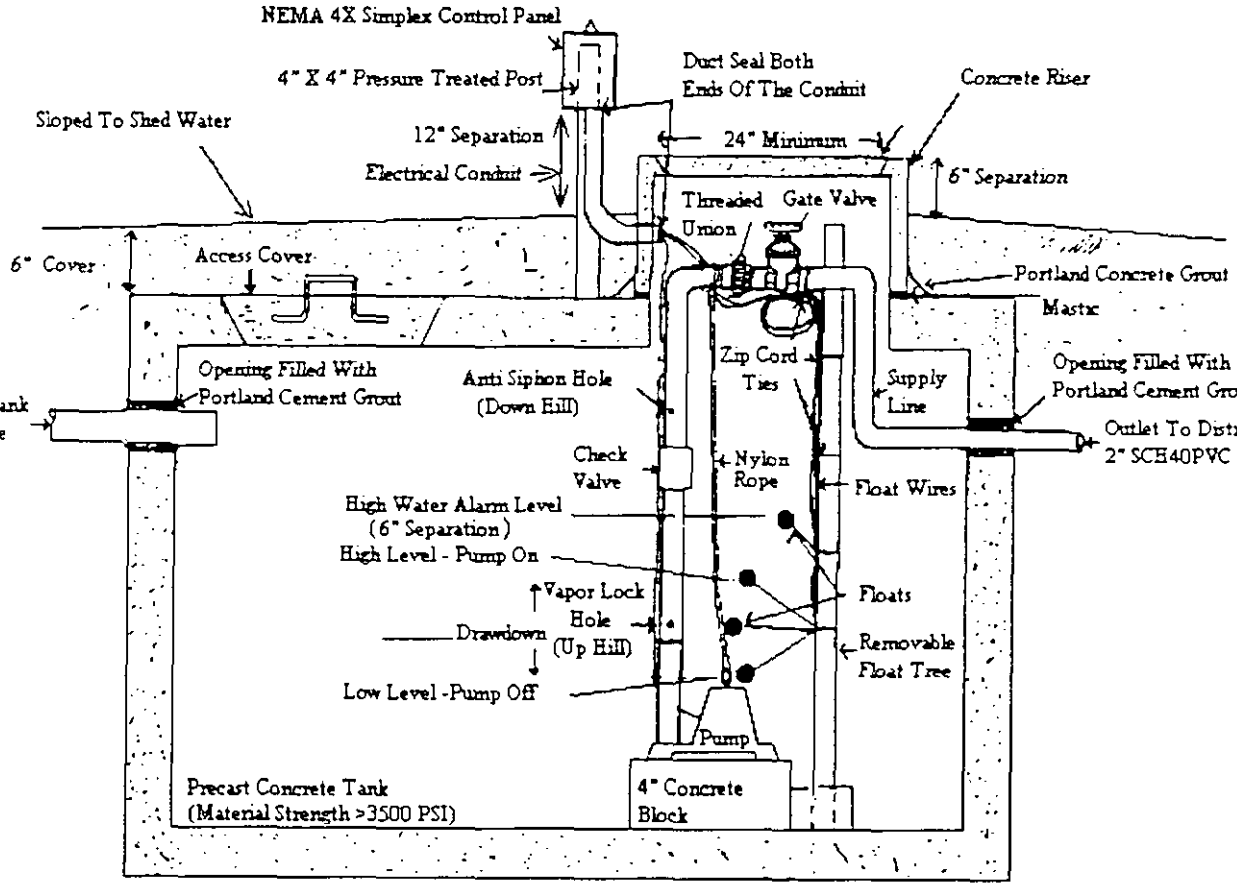
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CUTAWAY OF PRESSURE PANEL



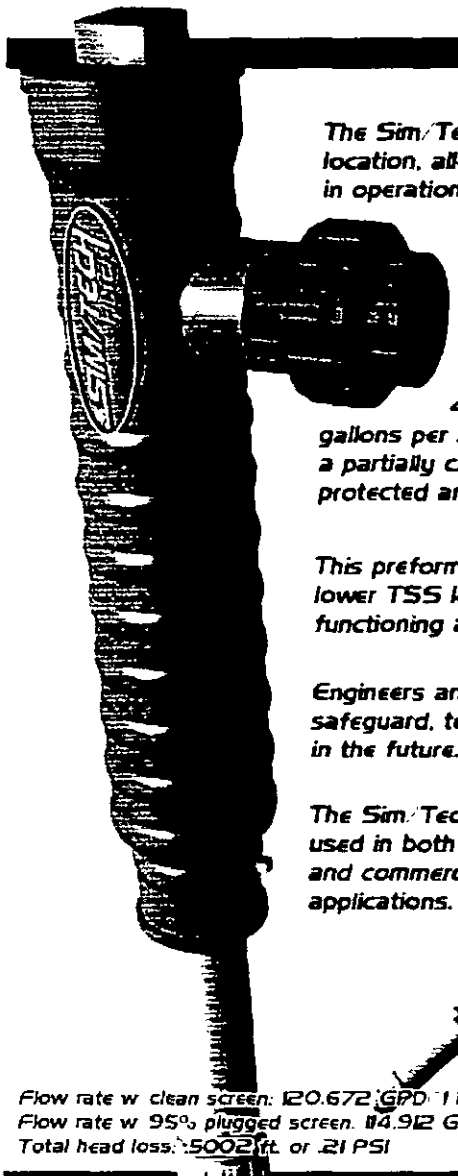
Pump Tank Detail
Lot 1B, North Point Road
Huntersville, NC

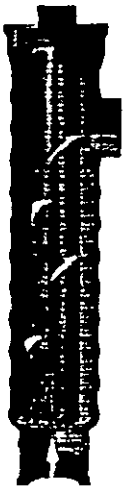


1000 Gallon Pump Tank

NORTH CAROLINA REGISTERED SEAL 1208 SANITARIAN LARRY B. THOMPSON, JR.

SIM/TECH Solutions





The Sim/Tech filter. with it's unique design and mounting location. allows the filtering screen to be scrubbed while in operation. providing maximum maintenance intervals with unmatched performance capabilities.

The filter screen is a type 347 stainless steel with .062 diameter holes. It is 3 inches in diameter and 18 inches long with a 69.52 square inch open area This large 41% open area allows the filter to pass 83.8 gallons per minute at 1 psi. With features like these even a partially clogged screen will keep the system well protected and working properly.

This preformance product assures quality effluent with lower TSS levels. keeping your pressurized system functioning at 100% efficiency.

Engineers and designers now have the ability to offer a simple safeguard. to assure systems will function as designed now and in the future.

The Sim/Tech filter can be used in both residential and commercial applications.



STF-100

STF-100A2



Commercial manifold assembly

Flow rate w clean screen: 120.672 GPD 1 PSI
Flow rate w 95% plugged screen. 114.912 GPD .18 PSI
Total head loss: .5002 ft. or .21 PSI

www.gag-simtech.com 888-999-3290 simtech@freeway.net

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

INNOVATIVE WASTEWATER SYSTEM APPROVAL

INNOVATIVE WASTEWATER SYSTEM NO: IWWS-99-2

ISSUED TO: Gary Koteskey, President
GAG *SIM/TECH* Filters
06598 Horton Bay North Rd.
Boyne City, MI 49712
888-999-3290; Fax: 616-582-7324; www.gag-simtech.com

FOR: GAG Sim/Tech Filter Model STF-100 (Job Ready)
GAG Sim/Tech Filter Field Assembled Models STF-100A, STF-100A2, and STF-100A3
Pressure Alarm Switch Model STF-101
Polyester Sock Model STF-104

APPROVAL DATE: June 1, 1999

In accordance with 15A NCAC 18A.1969, an application by GAG *SIM/TECH* Filters, Boyne City, MI, for approval of their GAG Sim/Tech Filter has been reviewed and found to meet the standards of an innovative system when all of the following conditions are met:

A. GENERAL

This Innovative System Approval is applicable to subsurface wastewater systems utilizing GAG Sim/Tech Filters in the discharge line from an effluent pump, following pretreatment by a septic tank, or other approved wastewater pretreatment component, which delivers effluent to a pressurized or gravity distribution device. The GAG Sim/Tech Filter is designed to filter out solids greater than 1/16-inch in size (or 600 microns when the optional sock filter insert is used) from the effluent to prevent plugging of small holes in the distribution network. This Innovative System Approval is limited to systems where the pumping rate through the filter shall not exceed 80 gallons per minute. However, for systems requiring a higher pumping rate, consideration shall be given by the State for approval on a case-by-case basis, based upon special design considerations made by the system designer and manufacturer.

B. SYSTEM DESCRIPTION

1. The GAG Sim/Tech filter is installed in the vertical discharge pipe on the pressure side of an effluent pump in a wastewater system pump tank. The filter assembly consists of inlet and outlet pipe and disconnect fittings, filter containment cannister, and the filter. The filter is manufactured of Type 347 stainless steel with 0.062 inch diameter holes and a 41 percent

open area, and is three-inches in diameter and 18 inches long. The filter assembly which comes with Model STF-100 ("Job Ready") includes a two-inch Sch. 40 PVC inlet pipe which attaches to the pump discharge pipe (or directly to the pump discharge port), a Sch. 40 PVC filter containment cannister with filter, and Sch. 80 PVC union for connection with a two-inch PVC discharge pipe. An optional polyester sock with 600-micron mesh size may also be inserted in the filter. Field assembled Models STF-100A, STF-100A2, and STF-100A3 come with a Sch. 40 PVC filter containment cannister and filter, and inlet and outlet ports to be connected by the installer to the pump and discharge piping (Model 100A: 3-inch inlet, 2-inch outlet; Model 100A2: 2-inch inlet, 2-inch outlet; Model 100A3: 3-inch inlet, 3-inch outlet).

2. The pressure alarm switch, when provided, is installed in the cannister between the pump and the filter, and wired directly to an outside, above grade separate alarm panel, or directly to the pump high water alarm. Pressure alarm switch is applicable to Model STF-100 and Model STF-100A2, only.

C. USE LIMITATIONS AND DESIGN CRITERIA

1. The GAG Sim/Tech filter may be used in any system requiring pumping to a pressurized distribution system. The filter may also be used in the initial construction or when modifying or repairing a system which involves pumping to a conventional (gravity distributed) drainfield, when it is determined by the environmental health specialist that the retention of solids facilitated by the filter shall improve system performance. Under this Innovative Approval, the filter shall not be installed where the design pumping rate exceeds 80 gallons per minute, unless specifically approved by the State on a case-by-case basis.

2. Pump total dynamic head calculations should assume the filter will increase friction head losses by up to two feet (based on the filter being 95-percent clogged, and a flow rate of 80 gpm). The designer may utilize lesser estimated head loss values based upon manufacturer's recommendations, when the pumping rate is less than 80 gpm.

3. **The pressure alarm switch** is a recommended, optional accessory for most applications, and **mandatory** when a polyester sock insert is used in conjunction with the filter. When used, the pressure alarm switch shall be connected either to the pump's high-water alarm, or to a separate adjacent audible and visible alarm. Requirements for the alarm shall be the same as for the pump high water alarm (see Rule 15A NCAC 18A .1952[c][9]).

D. INSTALLATION AND TESTING PROCEDURES

1. The GAG Sim/Tech filter and appurtenances shall be assembled and installed in accordance with manufacturer's specifications. The filter cannister and the cannister/pump disconnect shall be located in such a manner that they can be readily accessible by the operator beneath the access manhole opening and removable by hand from above finished grade. The pump disconnect shall be located within 18 inches of the top of the riser opening.

2. A check valve shall be installed in the pump discharge line downstream of the filter/pump disconnect.
3. Wherever the pressure alarm switch is also to be installed, a shut-off/pressure adjustment

valve shall also be installed in the discharge line downslope of the filter/pump disconnect and within 100 feet of the pump tank. When pumping to a pressure distribution system, the pressure alarm switch shall be adjusted per manufacturer's instructions so that an alarm condition will be triggered when the pressure drop across the filter increases by more than two pounds per square inch. Pressure drop setting shall be tested by simulating a pressure drop in the pressure distribution network by adjustment of the shut-off/pressure adjustment valve.

E. OPERATION AND MAINTENANCE

1. System classification, management and inspection shall be in accordance with Rule .1961. A management entity with a Certified Operator shall be required to maintain the system whenever the GAG Sim/Tech filter is used in conjunction with pumping to a pressure-distribution drainfield or to a pretreatment system which utilizes a pressure distribution system (e.g. Low-pressure pipe drainfield or LPP-distribution system in sand filter), and whenever pumping is timer-controlled (e.g. flow equalization system).

2. Use of the GAG Sim/Tech filter shall be clearly indicated on the Operation Permit. The filter shall be used and maintained in accordance with manufacturer's specifications and applicable laws and rules. Debris removed from the filter during servicing shall be directed into the septic tank, or otherwise handled in accordance with an alternate approved sanitary disposal method.

F. LITERATURE

The manufacturer shall furnish with each filter:

-Literature to be provided to the system installer describing installation procedures.

-Literature to be provided by the installer to the system owner/user/operator describing filter and recommended maintenance and servicing procedures.

G. MAINTAINING APPROVAL STATUS

The approval status is governed by Rule .1954(e).

Approved by:_____ Date:_____

FEE: 200.00 CK # 13[illegible] DATE: 7/25/02

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

LOT 1 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 #: 502628

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 001-452-69

STREET ADDRESS: Lot 1B North Point Rd

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: 1B Browns Addition

TYPE OF BUILDING (CHECK ONE):

__ SINGLE MOBILE HOME(S)
__ DOUBLE WIDE (D)
X 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
X 6 HUNTERSVILLE
__ 7 MINT HILL

HEATED SQUARE FOOTAGE: 2928

NUMBER OF BEDROOMS: 4 NUMBER OF OCCUPANTS: 2

CLOSING DATE _____

FOUNDATION FOR RESIDENCE:

__ WITHOUT BASEMENT
__ ON SLAB
X 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 X NO TYPE: _____

WATER SUPPLY (CHECK ONE):
__ COMMUNITY (C)
__ SHARED WELL (S)
X MUNICIPAL (M)
__ OTHER 'SPRINGS' (O)
__ PRIVATE WELL (P)

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

BURIED CABLES, LANDFILLS, STUMPHOLES __ YES X NO
EXISTING WASTEWATER SYSTEMS __ YES X NO
EASTMENTS OR RIGHT-OF-WAYS __ YES X NO
WELL, SPRINGS OR WATERLINES __ YES X NO
DESIGNATED WETLANDS __ YES X NO

PROPERTY OWNER:

NAME: Faulkenberry, Russell & Jennifer
(LAST) (FIRST) (MI)

ADDRESS: 18581 Vineyard Point Ln.

CITY: Cornelius STATE: NC ZIP: 28031

DAYTIME PHONE: (704) 506-7686

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME:
(LAST) (FIRST) (MI)

DAYTIME PHONE: ( ) -

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 4/16/2002 Book 37 pg 315-316

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: Russell Faulkenberry Jennifer Faulkenberry DATE: 7/20/2002

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

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Property ID: 001-452-69
Lot #: 1B
File #: 5026B
Code: 2

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Russell and Jennifer Faulkenberry
Applicant: Russell Faulkenberry
Address: 18581 Vineyard Point Lane
Date Evaluated: 8/1/02
Proposed Facility Residence
Design Flow (.1949): 480 GPD
Property Size:
Location of Site: North Point Road
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] 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 (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 7	0-5	GR/SCL	FR/SEXP/SS/SP	>45" TO SOIL WETNESS	45"	N/A	NONE	PS,IV .3GPD/FT^2
		5-21	SBK/C	FI/SEXP/SS/SP					
		21-45	SBK/SCL	FR/SEXP/SS/SP					
2	LS,7	0-2	GR/SCL	FR/SEXP/SS/SP	>50" TO SOIL WETNESS	50"	N/A	NONE	PS,IV .3GPD/FT^2
		2-16	SBK/SCL	FR/SEXP/SS/SP					
		16-41	SBK/C	FI/SEXP/SS/SP					
		41-50	SBK/CL	FI/SEXP/SS/SP					
3	LS,6	0-7	GR/SCL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49"	N/A	NONE	.3GPD/FT2
		7-41	SBK/C	FI/SEXP/SS/SP					
		41-49	SBK/CL	FI/SEXP/SS/SP					

Description	Initial System	Repair System
Available Space (.1945)	US	US
System Type(s)		

Other Factors (.1946): _____
Site Classification (.1948): UNSUITABLE
Evaluated By: Jeremy Michelone RS, 8/01/02
Others Present:

COMMENTS 100% Replant

LANDSCAPE POSITION

R-RIDGE
S-SHOULDER SLOPE
L-LINEAR SLOPE
FS-FOOT SLOPE
N-NOSE SLOPE
H-HEAD SLOPE
CC-CONCLAVE SLOPE
CV-CONVEX SLOPE
T-TERRACE
FP-FLOOD PLAIN

GROUP	TEXTURE	1955 LTAR
I	S-SAND LS-LOAMY SAND	1.2-0.8
II	SL-SANDY LOAM L-LOAM	0.8-0.6
III	SI-SILT SICL-SILTY CLAY LOAM CL-CLAY LOAM SCL-SANDY CLAY LOAM	0.6-0.3
IV	SC-SANDY CLAY SIC-SILTY CLAY O-ORGANIC	0.4-0.1

CONSISTENCE

MOIST

VFR-VERY FRIABLE
FR-FRIABLE
FI-FIRM
VFI-VERY FIRM
EFI-EXTREMELY FIRM

WET

NS-NON-STICKY
SS-SLIGHTLYSTICKY
S-STICKY
VS-VERY STICKY
NP-NON-PLASTIC
SP-SLIGHTLYSTICKY
P-PLASTIC
VP-VERY PLASTIC

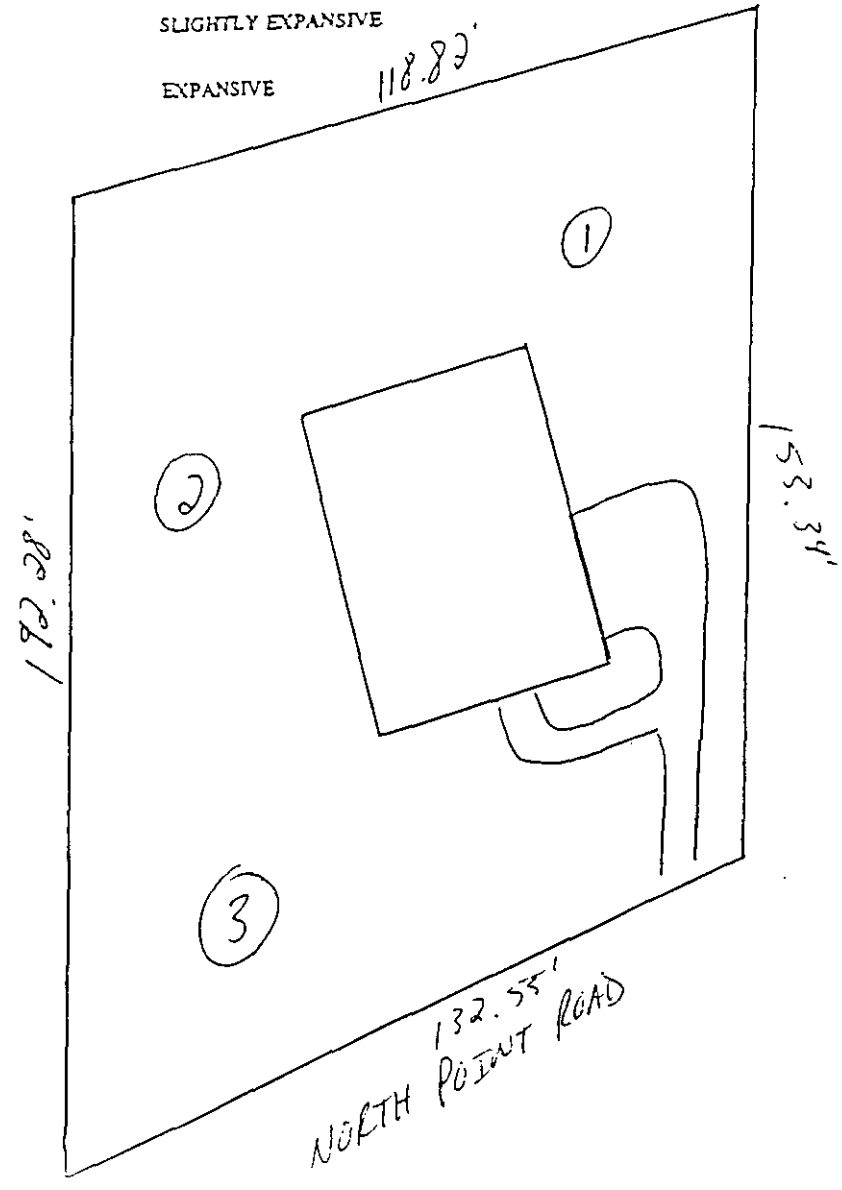
STRUCTURE

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

MINERALOGY

SLIGHTLY EXPANSIVE

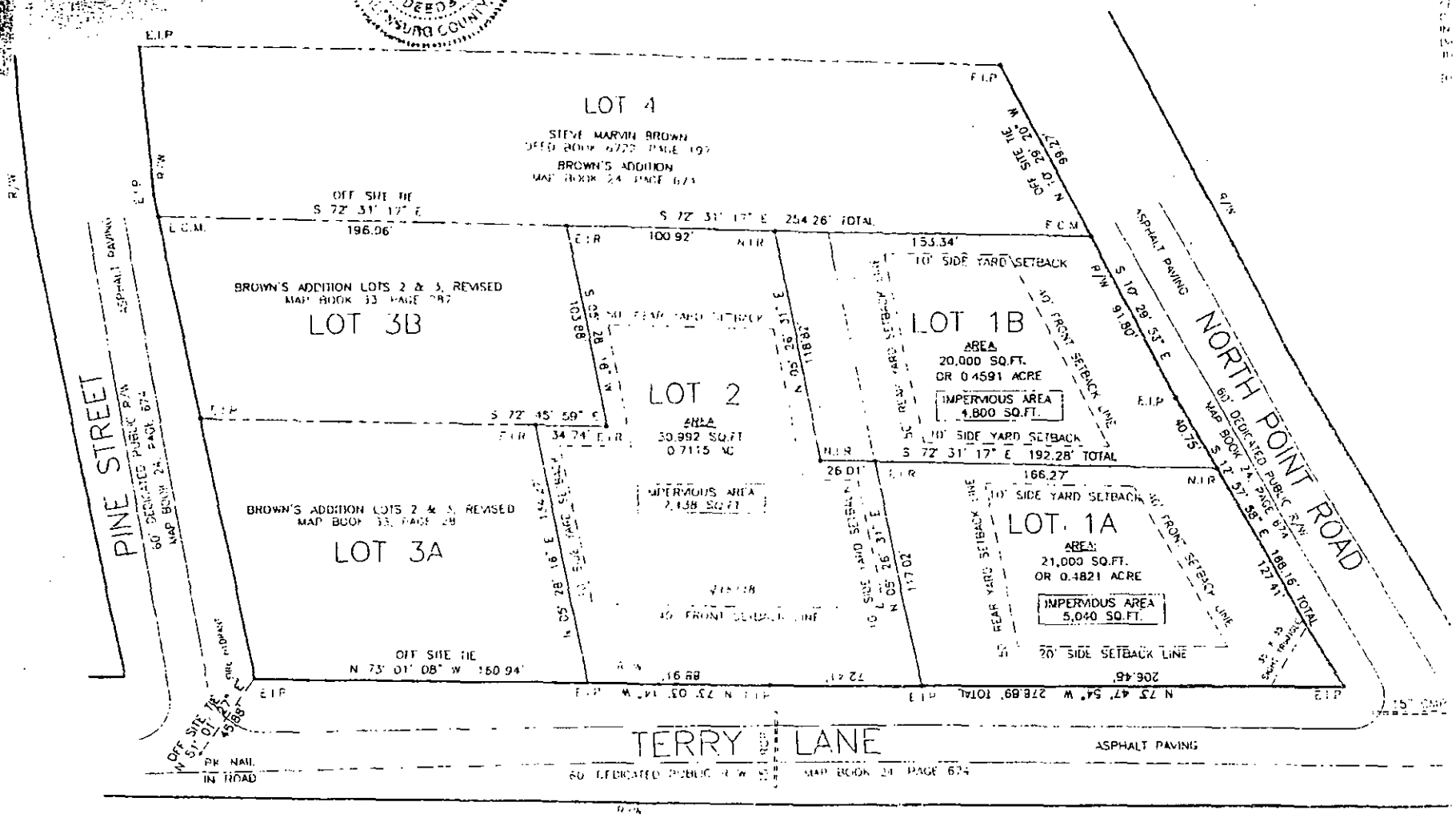
EXPANSIVE



PLAT BOOK 37 PAGE 315-316
DATE 4/16/2002
JUDITH A. GIBSON, REGISTER OF DEEDS
BY Jessie Young DEPUTY

JUDITH A. GIBSON REGISTER OF DEEDS BUNCOMBE COUNTY, N.C.

AREA
71,992 SQ.FT
OR 1.6527 ACRES TOTAL



MB 37 P 315

Mecklenburg County
Health Department

August 27, 2002

Russell & Jennifer Faulkenberry
18581 Vineyard Point Lane
Cornelius, NC 28031

Re: Application for improvement permit for
Property Site: lot 1B, North Point Road
Health Department file no. 5026B

Dear Property Owner or Owner's Agent:

The Mecklenburg County Health Department, Environmental Health Division on August 1, 2002 evaluated the above-referenced property at the site designated on the plat/site plan that accompanied your improvement permit application. According to your application the site is to serve a 4-bedroom residence, with a design wastewater flow of ___480____gallons per day. The evaluation was done in accordance with the laws and rules governing wastewater systems in North Carolina General Statute 130A-333 and related statutes and Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rule .1900 and related rules.

Based on the criteria set out in Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rules .1940 through .1948, the evaluation indicated that the site is **UNSUITABLE for** a ground absorption sewage system. Therefore, your request for an improvement permit is **DENIED.** A copy of the site evaluation is enclosed. The site is unsuitable based on the following:

_____Unsuitable soil topography and/or landscape position (Rule .1940)
_____Unsuitable soil characteristics (structure or clay mineralogy) (Rule .1941)
_____Unsuitable soil wetness condition (Rule .1942)
_____Unsuitable soil depth (Rule .1943)
_____Presence of restrictive horizon (Rule .1944)
____X____Insufficient space for septic system and repair area (Rule .1945)
_____Unsuitable for meeting required setbacks (Rule .1950)
_____Other (Rule .1946)

For the reasons set out above, the property is currently classified **UNSUITABLE,** and an improvement permit shall not be issued for this site in accordance with Rule .1948 (c).

However, the site classified as **UNSUITABLE** may be classified as **PROVISIONALLY SUITABLE** if written documentation is provided that meets the requirements of Rule .1948(d). A copy of this rule is enclosed. You may hire a consultant to assist you if you wish to try to develop a plan under which your site could be reclassified as **PROVISIONALLY SUITABLE.**

You have a right to an informal review of this decision. You may request an informal review by the soil scientist or environmental health supervisor at the local health department. You may also request an informal review by the N. C. Department of Environment and Natural Resources regional soil specialist. A request for informal review must be made in writing to the local health department.

You also have a right to a formal appeal of this decision. To pursue a formal appeal, you must file a petition for a contested case hearing with the Office of Administrative Hearings, 6714 Mail Center, Raleigh, NC 27699-6714. To get a copy of a petition form, you may write the Office of Administrative Hearings or call the office at (919) 733-0926. The petition for a contested case hearing must be filed in accordance with the provision of North Carolina General Statutes 130A-24 and 150B-23 and all other applicable provisions of Chapter 150B. N. C. General Statue 130A-335(g) provides that your hearing would be held in the county where your property is located.

Please note: 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 August 27, 2002. 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 might request. Do no wait for the outcome of any informal review if you wish to file a formal appeal.

If you file a petition for a contested case hearing with the Office of Administrative Hearings, you are required by law (N.C. General Statute 150B-23) to send a copy of your petition to the North Carolina Department of Environment and Natural Resources. Send the copy to: Office of General Counsel, N. C. Department of Environment and Natural Resources, 1601 Mail Service Center, Raleigh, NC. 27699-1601. Do **NOT** send the copy of the petition to your local health department. Sending a copy of your petition to the local health department will **NOT** satisfy the legal requirement in N.C. General Statute 150B-23 that you send a copy to the Office of General Counsel, NCDENR.

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

Sincerely,

Jeremy P. Michelone, R.S.
Authorized Agent - DENR

Encl: (2)

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1
Property ID: 001-452-69
Lot #: 1B
File #: 5026B
Code: 2

ACS

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Russell and Jennifer Faulkenberry
Applicant: Russell Faulkenberry
Address: 18581 Vineyard Point Lane
Date Evaluated: 8/1/02
Proposed Facility: Residence
Design Flow (.1949): 480 GPD
Property Size:
Property Recorded:
Location of Site: North Point Road
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941		OTHER PROFILE FACTORS				
			1941 Structure/ Texture	1941 Consistence Mineralogy	1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr. Horiz.	Profile Class & LTAR
1	LS, 7	0-5	GR/SCL	FR/SEXP/SS/SP	>45" TO SOIL WETNESS	45"	N/A	NONE	PS,IV .3GPD/FT^2
		5-21	SBK/C	FI/SEXP/SS/SP					
		21-45	SBK/SCL	FR/SEXP/SS/SP					
2	LS,7	0-2	GR/SCL	FR/SEXP/SS/SP	>50" TO SOIL WETNESS	50"	N/A	NONE	PS,IV .3GPD/FT^2
		2-16	SBK/SCL	FR/SEXP/SS/SP					
		16-41	SBK/C	FI/SEXP/SS/SP					
		41-50	SBK/CL	FI/SEXP/SS/SP					
3	LS,6	0-7	GR/SCL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49"	N/A	NONE	.3GPD/FT2
		7-41	SBK/C	FI/SEXP/SS/SP					
		41-49	SBK/CL	FI/SEXP/SS/SP					

Description	Initial System	Repair System
Available Space (.1945)	US	US
System Type(s)		
Site LTAR	0.3GPD/FT^2	0.3GPD/FT^2

Other Factors (.1946): _____
Site Classification (.1948): UNSUITABLE
Evaluated By: Jeremy Michelone RS. 8/01/02 Jeremy Michelone R.S.
Others Present:

FILE # 500615

COMMENTS 100% Repair

LANDSCAPE POSITION	GROUP	TEXTURE	.1955 LTAR	CONSISTENCE MOIST	WET
R-RIDGE	I	S-SAND	1.2-0.8	VFR-VERY FRIABLE	NS-NON-STICKY
S-SHOULDER SLOPE		LS-LOAMY SAND		FR-FRIABLE	SS-SLIGHTLYSTICKY
L-LINEAR SLOPE				FI-FIRM	S-STICKY
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8-0.6	VFI-VERY FIRM	VS-VERY STICKY
N-NOSE SLOPE		L-LOAM		EFI-EXTREMELY FIRM	NP-NON-PLASTIC
H-HEAD SLOPE					SP-SLIGHTLYSTICKY
CC-CONCLAVE SLOPE	III	SI-SILT	0.6-0.3		P-PLASTIC
CV-CONVEX SLOPE		SICL-SILTY CLAY LOAM			VP-VERY PLASTIC
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			

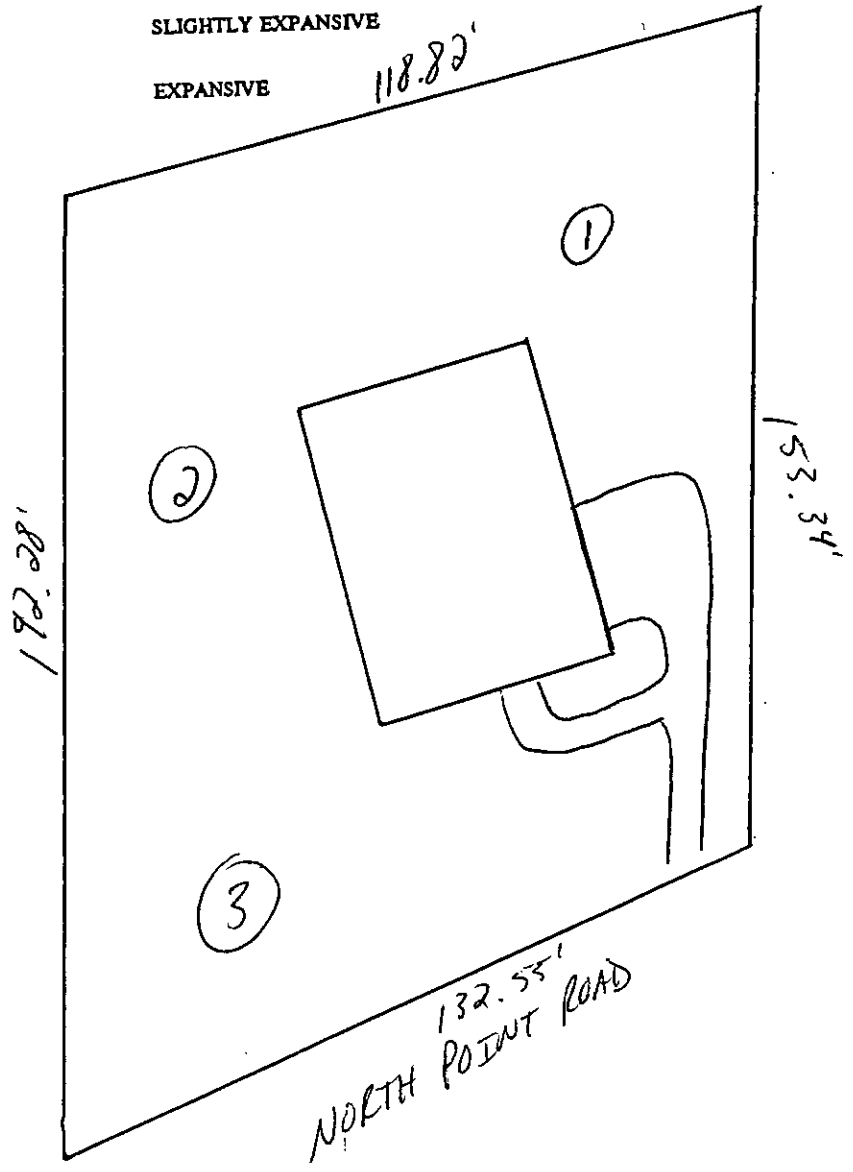
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ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



LOT: 20 of Lot 13 pg 2 SC

DATE: 7/22/02

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 #: 50269

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 001-452-69

STREET ADDRESS: Lot 1B North Point Rd

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: 1B Browns Addition

TYPE OF BUILDING (CHECK ONE):

___ SINGLE MOBILE HOME(S)
___ DOUBLE WIDE (D)
X 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
X 6 HUNTERSVILLE
___ 7 MINT HILL

HEATED SQUARE FOOTAGE: 2928

NUMBER OF BEDROOMS: 4

NUMBER OF OCCUPANTS: 2

CLOSING DATE_____

FOUNDATION FOR RESIDENCE:

___ WITHOUT BASEMENT ON SLAB
X 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 X NO TYPE: _____

WATER SUPPLY (CHECK ONE):

___ COMMUNITY (C)
___ SHARED WELL (S)
X MUNICIPAL (M)
___ OTHER 'SPRINGS' (O)
___ PRIVATE WELL (P)

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

BURIED CABLES, LANDFILLS, STUMPHOLES ___ YES X NO
EXISTING WASTEWATER SYSTEMS ___ YES X NO
EASTMENTS OR RIGHT-OF-WAYS ___ YES X NO
WELL, SPRINGS OR WATERLINES ___ YES X NO
DESIGNATED WETLANDS ___ YES X NO

PROPERTY OWNER:

NAME: Faulkenberry, Russell & Jennifer
(LAST) (FIRST) (MI)

ADDRESS: 18581 Vineyard Point Ln.

CITY: Cornelius STATE: NC ZIP: 28031

DAYTIME PHONE: (704) 506-7686

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME:
(LAST) (FIRST) (MI)

DAYTIME PHONE: ( ) -

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 4/16/2002 Book 37 pg 315-316

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: Russell Faulkenberry Jennifer Faulkenberry DATE: 7/20/2002

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

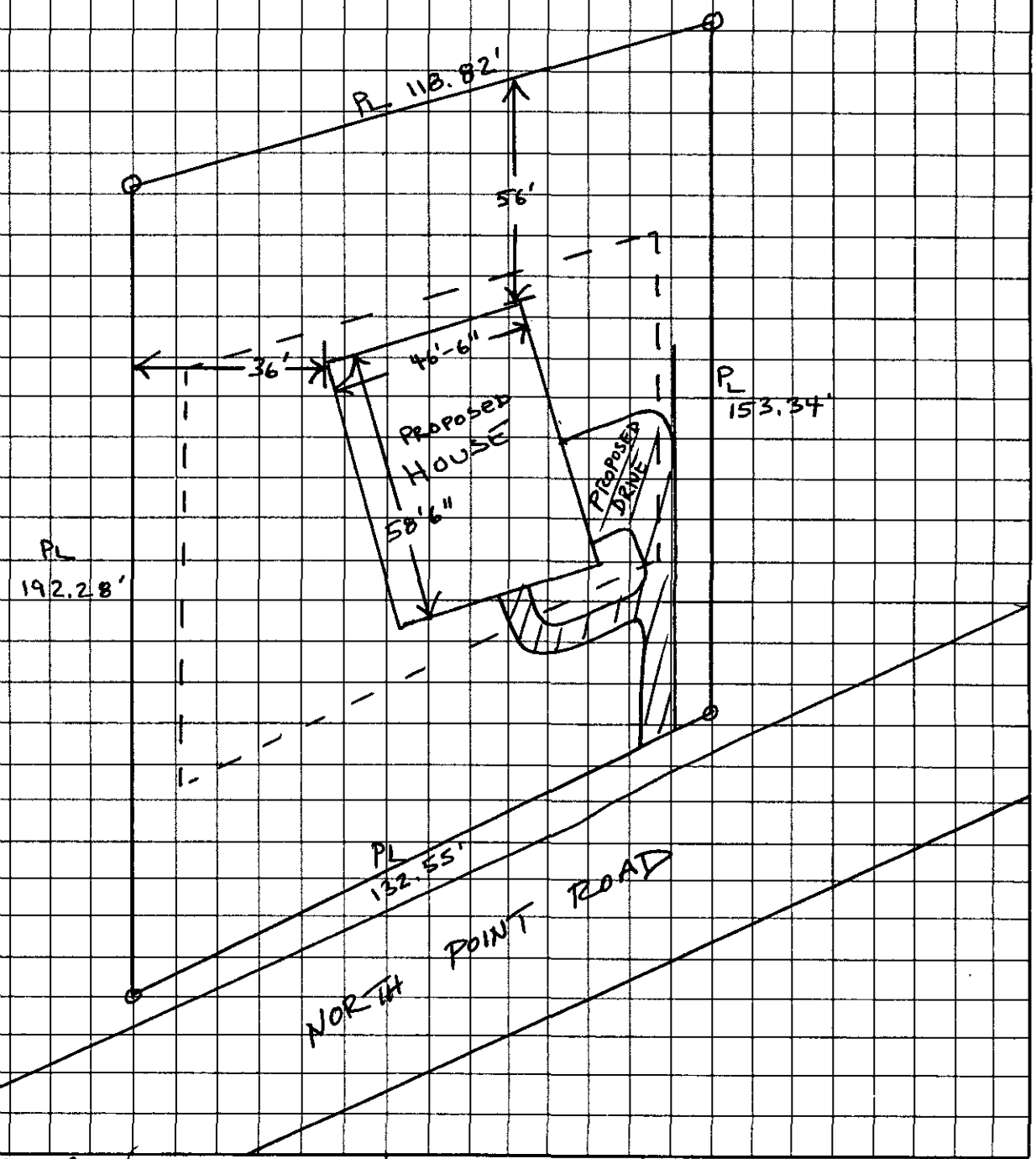
PROPOSED PLOT PLAN

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

FILE: 5026B

TC: 001-452-69PO

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.

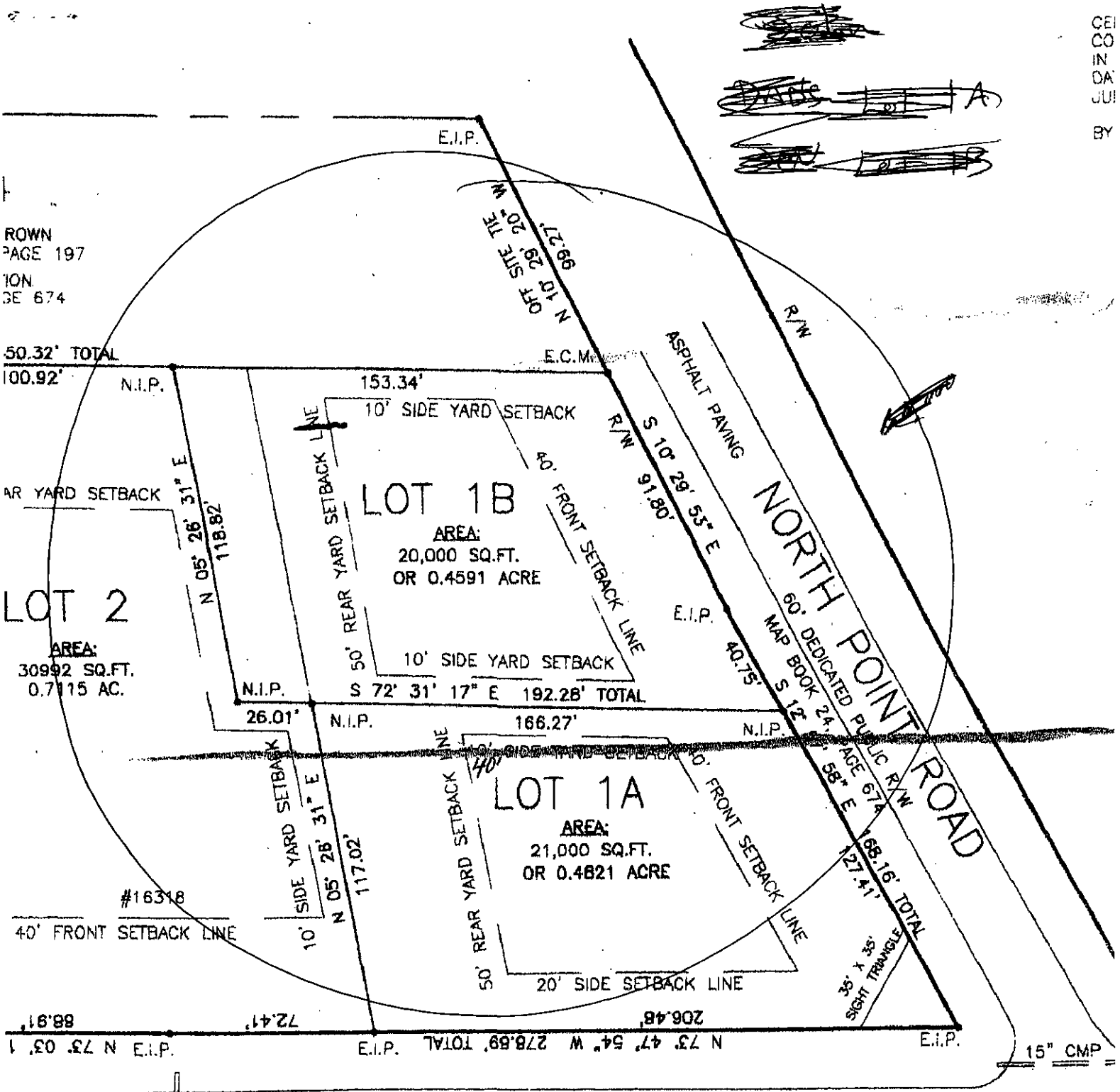


Russell Faulkner
OWNER/AGENT SIGNATURE

DATE 7/25/2002

APPROVAL DATE _____

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



State of
County
The Und
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PRELIMINARY PLAT
NOT FOR RECORDATI

a maxim

5026B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

App# 5986

APPLICATION FOR APPROVAL TO USE AN EXISTING
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM / WATER SUPPLY WELL

APPLICATION TYPE: (●) SEPTIC ONLY ( ) WELL ONLY ( ) SEPTIC & WELL
( ) ADDITION OR RENOVATION WITH OCCUPANCY INCREASE ( ) EXCHANGE MOBILE HOME (SAME # BEDROOMS)
(●) ADDITION OR RENOVATION WITH NO OCCUPANCY INCREASE ( ) COMMERCIAL OR INDUSTRIAL

PERSON FILING APPLICATION:
NAME: Karl Brooks
ADDRESS: 15715 North Point Rd.
CITY: Huntersville
STATE: NC ZIP: 28078
PHONE: (704) 517-6997
ALTERNATE PHONE: (803) 822-3218
E-MAIL: karlbrooks@aol.com

PROPERTY OWNER: [☑] SAME AS PERSON FILING APPLICATION
NAME:
ADDRESS:
CITY:
STATE: ZIP:
PHONE:
ALTERNATE PHONE:
E-MAIL:

JOB LOCATION INFORMATION
TAX PARCEL #: 001-452-69
STREET ADDRESS: 15715 North Point Rd.
CITY: Huntersville
STATE: NC ZIP: 28078

SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #:

WATER SUPPLY:
(●) MUNICIPAL ( ) PRIVATE WELL ( ) PUBLIC WELL ( ) SHARED WELL ( ) OTHER

RESIDENTIAL PROPERTY TYPE: ( ) N/A
(●) HOUSE ( ) MODULAR HOME ( ) MULTIPLE FAMILY
( ) SINGLE MOBILE HOME ( ) DOUBLE WIDE
( ) OTHER

OCCUPANCY (both fields are required):
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 3

COMMERCIAL / INDUSTRIAL PROPERTY TYPE: [☑] N/A
TYPE OF BUSINESS:
EMPLOYEES PER SHIFT:
OF SHIFTS:
INDUSTRIAL WASTES? ( ) YES ( ) NO
UNDERGROUND STORAGE TANKS? ( ) YES ( ) NO

ADDITION/RENOVATION TYPE ATTACHED TO EXISTING STRUCTURE:
[ ] BEDROOM [ ] BATHROOM [ ] KITCHEN [ ] DINING ROOM [ ] LIVING ROOM [ ] DEN
[ ] GARAGE [ ] SUNROOM [ ] PORCH [ ] DECK [ ] OTHER

ADDITION/RENOVATION TYPE DETACHED FROM EXISTING STRUCTURE:
[ ] DETACHED GARAGE [■] DETACHED GARAGE WITH PLUMBING [ ] POOL HOUSE [ ] SHOP [ ] BARN
[ ] STORAGE SHED [ ] DETACHED PORCH / DECK [ ] OTHER

*The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Karl A Brooks
Owner's/Agent's Signature

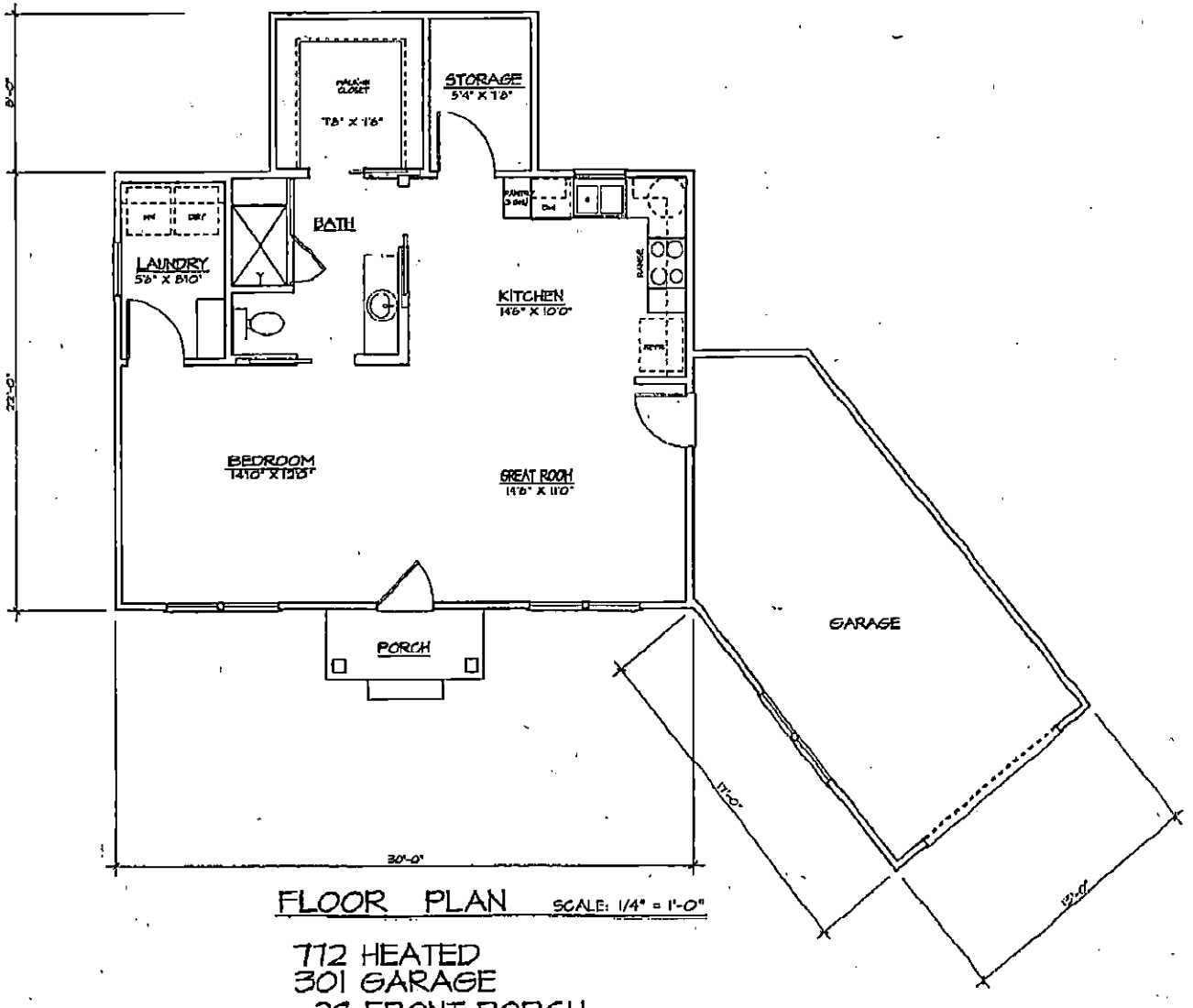
1/23/13
Date

A PROPOSED PLOT PLAN (see page 2) is required to be submitted with each application.

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

Revised on: 01/03/11

p.1
7049922293
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FLOOR PLAN SCALE: 1/4" = 1'-0"

772 HEATED
301 GARAGE
29 FRONT PORCH
1102 TOTAL

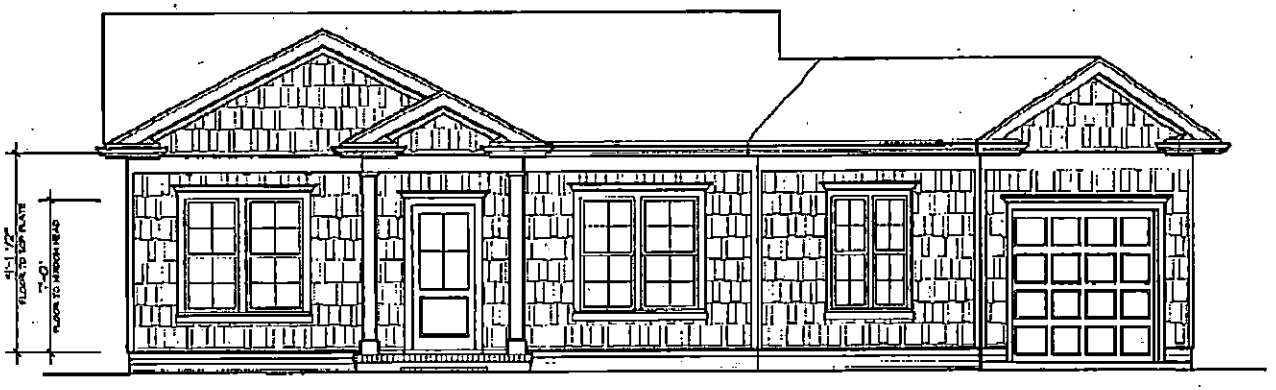
AREA:

TOTAL HEATED AREA	772
FRONT PORCH	29
GARAGE	301
TOTAL AREA	1102

CUSTOM GARAGE ADDITION FOR:
KARL AND SANDRA BROOKS

BROOKS
12/2012
DT
2

Tino Home Design, LLC
Residential Design and Drafting Services



FRONT ELEVATION SCALE: 1/4" = 1'-0"

CUSTOM GARAGE ADDITION FOR
KARL AND SANDRA BROOKS

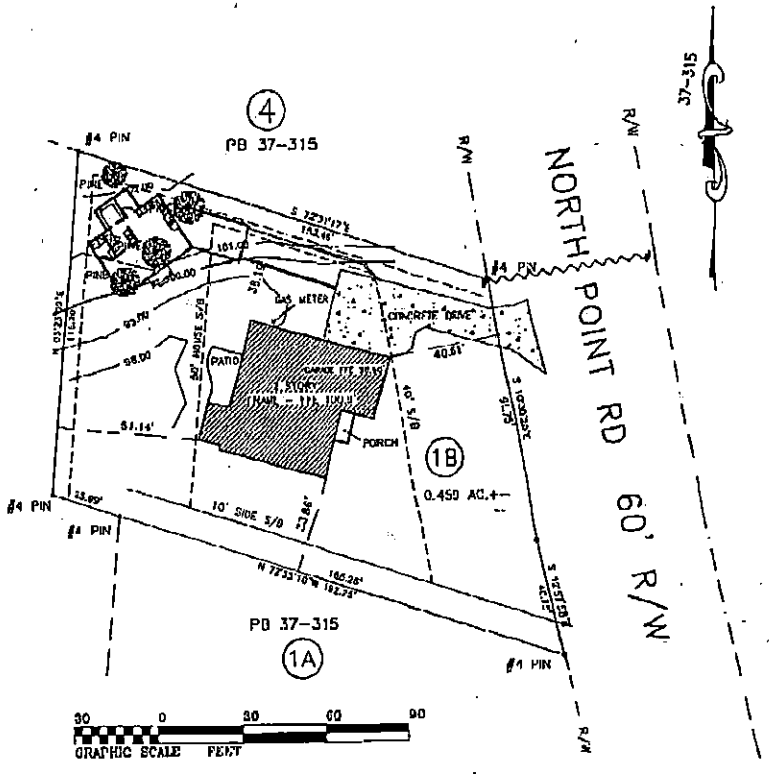
Tino Home Design, LLC
Residential Design and Drafting Services

12/2012

DT

3

Jan 23 13 03:53p Dealer Advance Group 7049922293 p.3



PROPOSED PLOT PLAN

SCALE: 1" = 30'

CUSTOM GARAGE ADDITION FOR:
KARL AND SANDRA BROOKS

Tino Home Design, LLC
Residential Design and Drafting Services

12/2012

DT

S-1

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	01/23/13	**Amount:**	100.00
Receipt #:	81318	**Tendered:**	100.00
Check / Auth #:	VISA 005198	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: 200000
Contractor: BROOKS KARL
Attn:
Address: 15715 NORTH POINT RD
Address:
City/State/Zip: HUNTERSVILLE, NC 28078

Item	Description	Permit#	Quantity	Unit Price	Total Price
0705	MH Exc/Add/Repl w/o System Mod 15715 NORTH POINT RD		1	100.00	100.00

REV COLL ' ' ENVHEALT
700 NORTH TRYON STREET
CHARLOTTE, NC. 28202

TERMINAL I.D.: 0021540000801345047503

MERCHANT #: 8013450476

VISA
xxxxxxxxxxxx6079 Y
SALE

RECORD #: 1 INV: 000001
DATE: JAN 23, 13 TIME: 16:01
BATCH: 3
AUTH: 005198

AVS RESPONSE: Y
CVV2 RESPONSE: P

ADDRESS AND 5 DIGIT ZIP MATCH

TOTAL $100.00

CARD BALANCE: $0.00

Outstanding Balances

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

I AGREE TO PAY ABOVE TOTAL AMOUNT
ACCORDING TO CARD ISSUER AGREEMENT
(MERCHANT AGREEMENT IF CREDIT VOUCHER)

CUSTOMER COPY