Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 02363 WASPS App #: 4856

Primary ES assigned to project: OJ

Secondary ES assigned to project: _____

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☐	No ☐	N/A ☑
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☐	No ☐	N/A ☑
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☐	No ☐	N/A ☑
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area? 3	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: _____ Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR .3	Yes ☑	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☐	No ☐	N/A ☑
130A-336(a)(1)	Property line lengths shown?	Yes ☑	No ☑	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☐	No ☑	N/A ☐

Operation Permit

.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: _____ Date performed: _____

4856 — 82368

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

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: 007-171-31
STREET ADDRESS: 600 Bridal Path
CITY: Davidson
STATE: NC ZIP: 28036
SUBDIVISION NAME: Davidson Equi
LOT #: 4 LOT SIZE (acres): 1.56
TOWNSHIP:
☐ 0-MECKLENBURG ☐ 3-CORNELIUS ☐ 6-HUNTERSVILLE
☐ 1-CHARLOTTE ☐ 4-PINEVILLE ☐ 7-MINT HILL
☐ 2-DAVIDSON ☐ 5-MATTHEWS

4. **BUILDING INFORMATION:**

BUILDING TYPE:
☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☑ HOUSE ☐ OTHER _____
HEATED SQUARE FOOTAGE: 4,000
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS: 5
FOUNDATION TYPE: CV
☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☑ CRAWL SPACE ☐ BASMENT 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:** ____ ____ ____ ____ ____

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?** 12/31/10 ☐ N/A

12. **PROPERTY OWNER:**

NAME: Clark Gott
ADDRESS: 13506 Robert Walker Dr.
CITY: Davidson
STATE: NC ZIP: 28036
HOME PHONE: 704 895-1925
WORK PHONE: 704 987-6544
MOBILE PHONE: 704 996-0946
FAX: 704 987-6549

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

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

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6984

Revised on: 7/1/08

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.

CWS (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.

NA (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.

Property Owner's or Owner's Legal Representative Signature

11/11/10
Date

OFFICE USE ONLY

☐ SURVEY PLAT TO SCALE SUBMITTED ☐ SCALED SITE PLAN SUBMITTED ☒ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEES RECEIVED: $ 250.00 DATE FEE RECEIVED: 11/10/10

WELL APPLICATION FEES RECEIVED: $ NA DATE FEE RECEIVED: NA

APPLICATION PROCESSED BY: T. THOMASON

GWS FILE NUMBER ASSIGNED: 8236B

APPLICATION ID NUMBER ASSIGNED: 4856

COMMENTS:

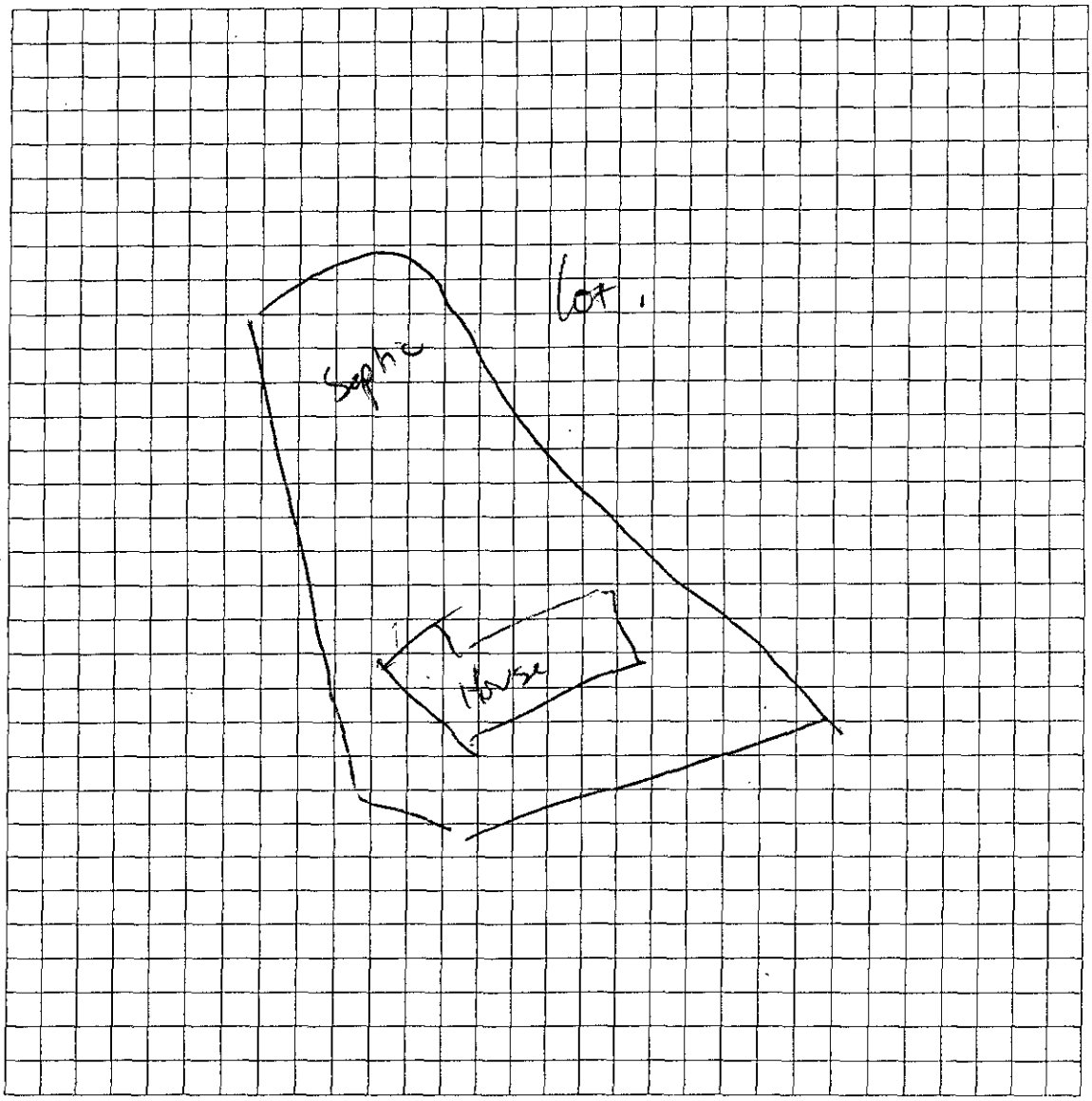
MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

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

File #_____
Date_____

PROPOSED PLOT PLAN

A map showing existing and proposed property lines and easements with dimensions, the location of the single family residence, non-single family residence, or other facility, and appurtenances, the site for the proposed well, and the location of existing or proposed sewer lines and/or sewage disposal systems, surface water bodies, aboveground or underground storage tanks. Name all roads adjoining the property. If this a repair indicate the type of repair.



Owner/Agent Signature	
Date	

LBC 12/15/04

ROLLANS *Soil & Environmental Services*

PO Box 832, Mooresville, NC 28115 *Phone: (704) 278-0989* *Fax: (704) 278-0989*

Ashley Rollans, NC Licensed Soil Scientist
(704) 746-5046
rollans.ashley@yahoo.com

Adrian Pruett, NC & SC Licensed Soil Scientist
(704) 202-5791
adrianpruett@yahoo.com

November 3, 2010
Project#: 01-1523

Ron Palpietra
10312 Remembrance Trail
Huntersville, NC 28087

Re: Preliminary Soil Evaluation on a ±1.567 acre (PIN# 007-171-31) located on Bridlepath Trail Mecklenburg County, North Carolina.

Dear Mr. Palpietra:

Rollans Soil and Environmental Services performed a preliminary soil and site investigation on the property referenced above. The evaluation was performed at your request as part of the preliminary planning process to evaluate soil areas for subsurface wastewater disposal. Fieldwork performed in November, 2008.

The property was traversed to observe elements of the landscape (slope, drainage patterns, complex topography, etc.) as well as soil conditions (depth, texture, structure, seasonal wetness, restrictive horizons, etc.) through the use of hand auger borings. The site was evaluated during dry soil conditions. These observations of the site were used to identify areas relative to subsurface disposal of wastewater. Individual soil borings (2) were flagged in the field, soil profile descriptions recorded and their locations depicted on the *Soil Map* attached below. The soil/site evaluation criteria used is that contained in 15 A NCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems".

The useable areas located on the map must be considered for their horizontal extents and configurations. Requirements for sizing of the subsurface disposal field are as follows: 1) the design flow from the proposed facility (120 gallons/bedroom/day in residences), and 2) the long term acceptance rate (LTAR) of the soil (based on the hydraulic conductivity of the soil, a function of the soil's texture, clay mineralogy, structure, porosity, etc.) The proposed design flow on this site along with the size, shape and topography of the usable soil area will dictate the utility of that area. Another consideration are the required horizontal setbacks from various features such as wells (100'), surface waters (50') or more depending on watershed regulations, property lines (10'), top of embankment (15'), watershed buffers, etc. (*see Attachment 1*).

FINDINGS

This site is located in the northeastern region of Mecklenburg County approximately 1 mile from the intersection of Sam Fur Road and Davidson-Concord Road. The upland soils were derived from felsic crystalline parent materials. The usable soil areas were most similar to the Cecil soil series. **Rollans Soil & Environmental Services described two soil borings with characteristics most similar to the Cecil soil series (see *Soil Profile Descriptions*. The soil series has a sandy**

loam surface material over clay subsoil. These soils are generally at least 24 inches deep to prohibitive soil characteristics and are generally usable for conventional type septic systems.

Soil areas generally unsuitable for supporting subsurface septic systems were encountered and suffered from unsuitable topography (gullied land, drainageways, etc.) Septic systems cannot be permitted in concave areas such as draws or drainageways.

The accompanying *Soil Map* indicates the areas with potential use for subsurface wastewater disposal. The **"Numbered Circles"** indicate borings with soils that are at least 24 inches deep to prohibitive soil characteristics and have potential for conventional, modified conventional and low-pressure pipe (lpp) septic systems. The **"Labeled Lines"** indicate septic lines, in a septic layout, that may be utilized for conventional or modified conventional septic systems. Other approved septic systems and materials may also be used if a different layout is utilized.

WASTEWATER CONSIDERATIONS

The potentially utility of the useable soil area for a subsurface system can be accurately determined by an on-ground layout of the proposed system. The area needed for system and repair fields will depend upon the type of system proposed, the efficiency of the contours and the total design flow (factors mentioned above). **Rollans Soil & Environmental Services recommends designating approximately 3000-4000 ft²/ bedroom of usable soil area for the system and repair drainfields. Therefore, a typical area needed for a four-bedroom (480 gpd) residence is approximately 12,000-16000 ft² or 1066 linear feet of conventional line (system and repair).** This areal requirement can be reduced by using approved drainfield technologies that provide 25 – 50% reductions in disposal area. The previous information was referenced from Laws and Rules for Sewage Treatment and Disposal Systems for North Carolina and used an LTAR of 0.3gpd/ft² for conventional septic systems (.1955). Please refer to the (*Profile Descriptions*) for detailed soil information and loading rates for each soil boring. The ultimate LTAR will be determined by the Health Department after their lot evaluation. Rollans Soil & Environmental Services can assist in any system layout or sizing calculations if requested.

Rollans Soil & Environmental Services has evaluated the subject lot and determined that it contains enough usable soil area to support a 5 bedroom residence pending the house envelope and well are positioned to minimize the impact of the area. To insure that there is available space for the drainfield a plan should be drawn to scale depicting the house driveway, septic and well locations

An improvements permit for each lot must be obtained prior to receiving a building permit. This will involve a detailed evaluation by the local health department to determine system size and layout, well, drive and house location, etc. After developing this information a final determination will be made regarding the type of system and overall site utilization.

Rollans Soil and Environmental Services is pleased to be of service in this matter and looks forward to assisting in any site analysis needs you may have in the future. Please feel free to call with any questions or comments.

Sincerely,

Encl: *Attachment 1*
Soil Map

Rollans Soil & Environmental Services PA

Attachment 1

.1950 Location of Sanitary Sewage Systems

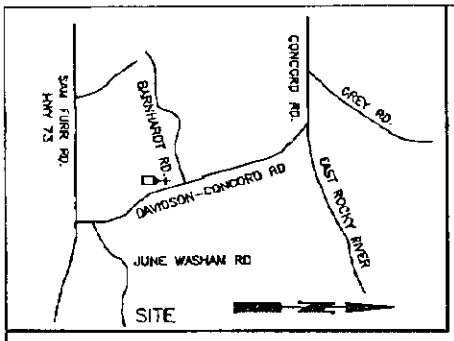
(c) Every sanitary sewage treatment and disposal system shall be located at least the minimum horizontal distance from the following:

(1)	any private water supply source including a well or spring	100 feet
(2)	any public water supply source	100 feet
(3)	streams classified as WS-I	100 feet
(4)	water classified as S.A.	100 feet from mean high water mark
(5)	Other coastal waters	50 feet from mean high water mark
(6)	any other stream, canal, marsh, or other surface waters	50 feet
(7)	any Class I or Class II reservoir normal	100 feet from pool elevation
(8)	any permanent storm water retention pond	50 feet from flood pool elevation
(9)	any other lake or pond	50 feet from normal pool elevation
(10)	any building foundation	5 feet
(11)	any basement	15 feet
(12)	any property line	10 feet
(13)	top of slope of embankments or cuts of 2 feet or more vertical height	15 feet
(14)	any water line	10 feet
(15)	drainage systems:	
	(A) Interceptor drains, foundation drains and storm water diversions	
	(i) upslope	10 feet
	(ii) sideslope	15 feet
	(iii) downslope	25 feet
	(B) Groundwater lowering ditched and devices	25 feet
(16)	any swimming pool	15 feet
(17)	any other nitrification field (except repair area)	20 feet

(b) Ground absorption, sewage treatment and disposal systems may be located closer than 100 feet from a private well supply, except springs and uncased wells located downslope and used as a source of drinking water, repairs, space limitations and other site-planning considerations but shall be located the maximum feasible distance and, in no case, less than 50 feet.

(c) Nitrification fields and repair areas shall not be located under paved areas or areas subject to vehicular traffic. If effluent is to be conveyed under areas subject to vehicular traffic, ductile iron or its equivalent pipe shall be used. However, pipe specified in Rule .1955 (e) may be used if a minimum of 30 inches of compacted cover is provided over the pipe.

Note: Systems over 3000 GPD or an individual nitrification fields with a capacity of 1500 GPD or more have more restrictive setback requirements, see .1950 (a) (17) (d) for specifics.



VICINITY MAP
NO SCALE

BASED ON
MAP FOR DORIS B. BALLARD & ROBERT L. WASHAM
BY T.L. BROTHERTON

LOT 4
MICHAEL D. CORTESE
& LESHIA W. CORTESE
20796-459
007-171-39

LOT 2
JOSEPH E. PEARN, JR.
& STEPHANIE PEARN
20384-684
007-171-34

PART OF LOT 3
JAMES B. BRUEGGEMANN
& LISA S. BRUEGGEMAN
21738-272
007-171-39

N 36°32'30"W
133.20'

L3

C5

C8

20' PRIVATE STREET
15' UTILITY & PEDESTRIAN EASEMENT
BRIDLEPATH TRAIL

N 41°29'19"E
162.75'

10' UTILITY EASEMENT

10.18'

10' UTILITY EASEMENT

S 47°42'44"E 298.06'

85'

60'

LOT 4
1.567 ACRES
RONALD J. SALPIETRA
& wf., JANET M.
19394-633
PIN #007-171-31

S 64°09'50"W 300.78' TOTAL

290.60'

C4

C3

LOT 1
GREGORY J. MURPHY
MARCY L. MURPHY
19771-854

LOT 5
JOHN E. HADDOCK, SR.
20103-197
007-171-32

S 22°28'19"E 205.96'

51.05'

S 02°37'51"W

3/4"
ROD

LOT 3
KENNETH C. BURNETTE
& wf, KIMBERLY L.
20222-670
007-171-30

DANIEL EDWARD MCCONNELL
16528-397
007-171-06

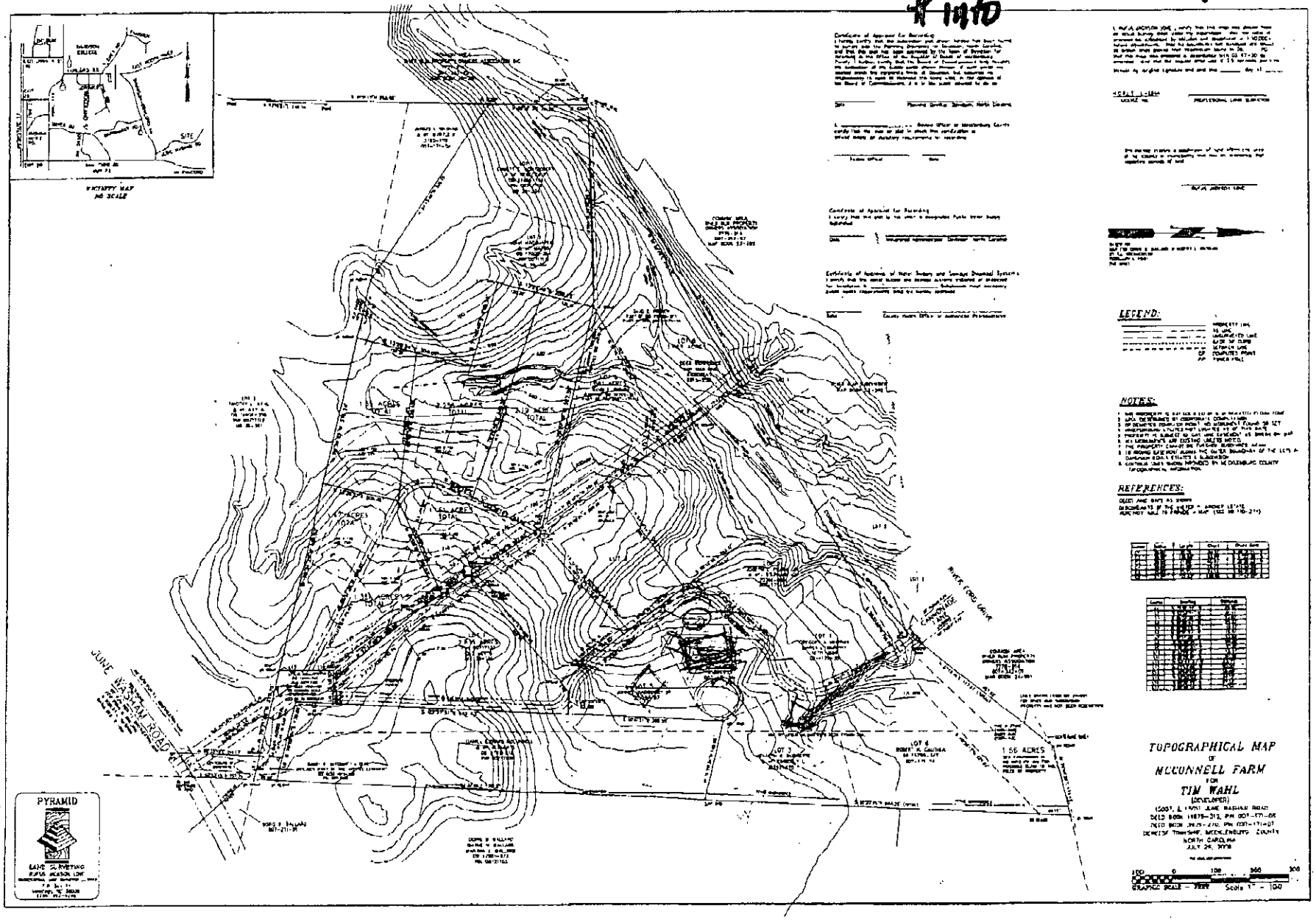
COURSE	BEARING	DISTANCE
L1	N 75°35'16"E	9.69'
L2	N 53°27'30"E	39.48'
L3	N 36°32'30"W	70.00'

CURVE	RADIUS	LENGTH	CHORD	CH.BEARING
C3	100.34'	88.36'	85.53'	N 50°21'40"E
C4	78.13'	46.50'	45.81'	N 58°32'17"E
C5	86.59'	73.66'	71.46'	N 12°10'26"W
C8	86.59'	44.28'	43.80'	N 26°50'34"E

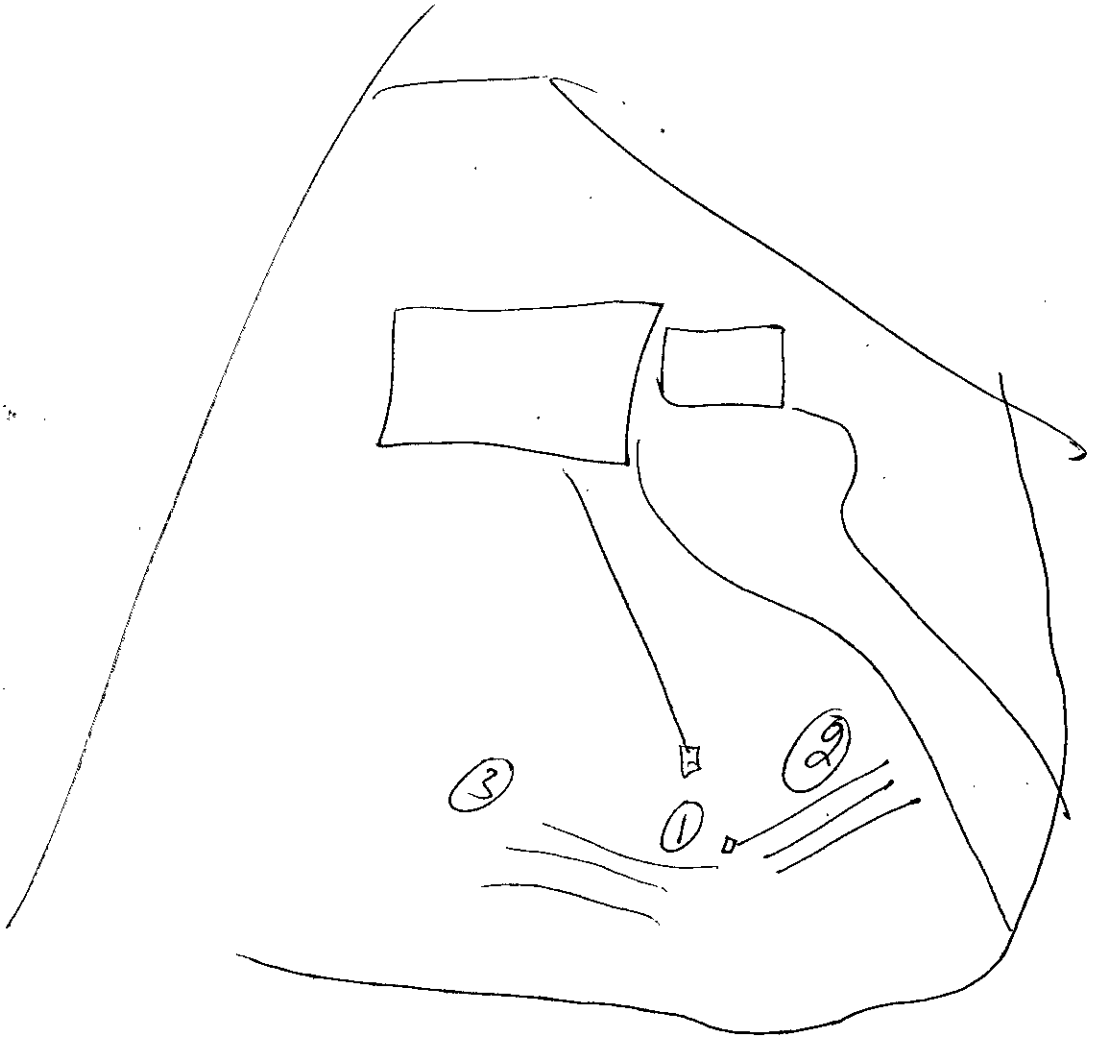
4

TOPOGRAPHICAL MAP

PD ~~[redacted]~~ in 9/27/05
$ into



Nov 10 10 11:14a The Jewel Box 704 987-6549 p.6


3
1
2

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

Page 1
Property ID: 717131
Lot #: 4
File #: 8236B
AppID: 4856

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Clark Goff
Applicant: Clark Goff
Address: 13506 Robert Walker Drive Davidson, NC 28036
Date Evaluated: 12/8/10
Proposed Facility: Residence
Design Flow (.1949) 600 GPD
Property Size: 1.56 acres
Location of Site: 600 Bridalpath Trail Davidson, NC 28036
Property Recorded: 2004
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	SOIL MORPHOLOGY .1941				b PROFILE FACTORS				
	.1940 Landscape Position/ Slope%	Horizon Depth (IN:)	.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	0-12	GR/SCL	FR/SS/SP/SEXP	>48" TO SOIL WETNESS	48"	NA	NA	GROUP IV
	5%	12-48	SBK/C	FI/S/P/SEXP					0.3 G/D/FT2
2	LS	0-8	GR/SCL	FR/SS/SP/SEXP	>48" TO SOIL WETNESS	48"	NA	NA	GROUP IV
	5%	8-30	SBK/C	FI/S/P/SEXP					0.3 G/D/FT2
		30-48	SBK/CL	FI/S/P/SEXP					
3	LS	0-10	GR/SCL	FR/SS/SP/SEXP	>48" TO SOIL WETNESS	48"	NA	NA	GROUP IV
	5%	10-48	SBK/C	FI/S/P/SEXP					0.3 G/D/FT2

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	III g	IV a
Site LTAR	0.3	0.3

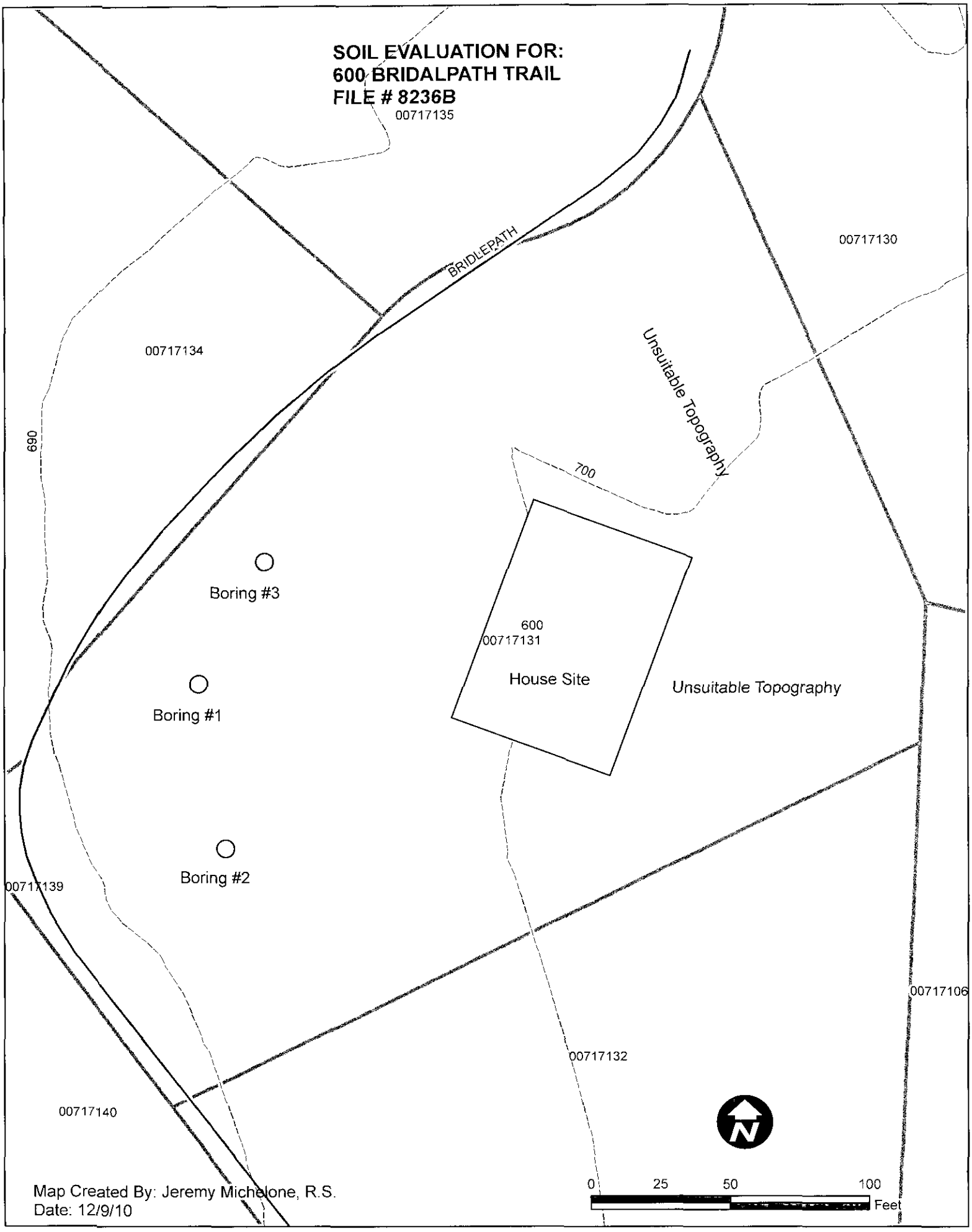
Other Factors (.1946):
Soil Evaluation By: Jeremy Michelone, R.S.
Others Present: Clark Goff
Site Classification (.1948): Provisionably Suitable
Site Evaluation By: Jeremy Michelone, R.S.
Others Present: Clark Goff

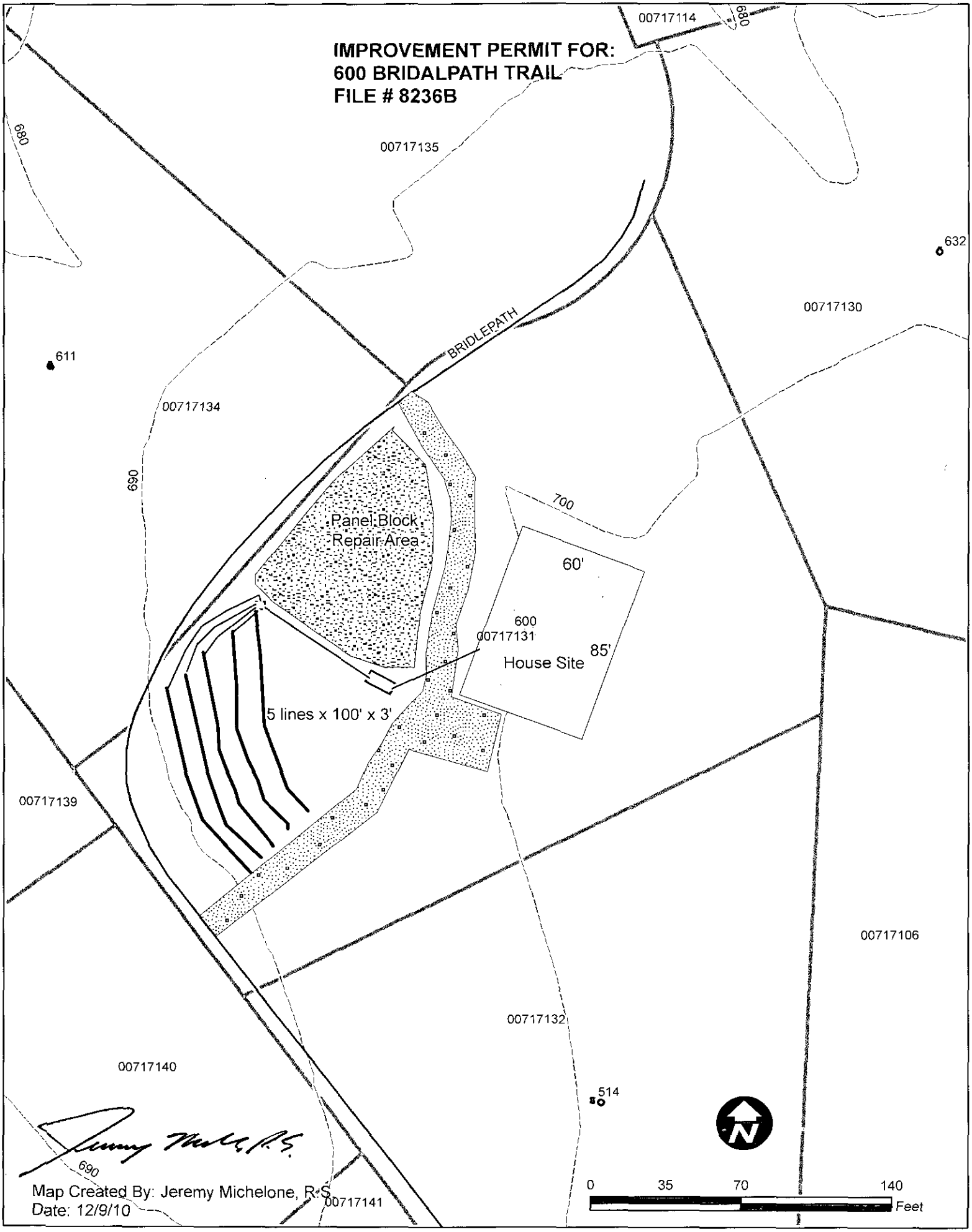
Jeremy Michelone, R.S.

COMMENTS:

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	SI-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SICL-Silty Clay Loam		PR-Prismatic
T-Terrace		CL-Clay Loam		
FP-Flood Plain		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

Consistence Moist	*Consistence* Wet	*Mineralogy*
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	


SOIL EVALUATION FOR:
600 BRIDALPATH TRAIL
FILE # 8236B
00717135
BRIDLEPATH
00717130
00717134
Unsuitable Topography
690
700
Boring #3
600
00717131
House Site
Unsuitable Topography
Boring #1
Boring #2
00717139
00717106
00717132
00717140
N
0
25
50
100
Feet
Map Created By: Jeremy Michelone, R.S.
Date: 12/9/10


IMPROVEMENT PERMIT FOR:
600 BRIDALPATH TRAIL
FILE # 8236B
00717114
680
00717135
680
632
00717130
BRIDLEPATH
611
00717134
690
700
Panel Block
Repair Area
60'
600
00717131
85'
House Site
5 lines x 100' x 3'
00717139
00717106
00717132
00717140
514
690
00717141
Map Created By: Jeremy Michelone, R.S.
Date: 12/9/10
0
35
70
140
Feet

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 #: **30004856** GWS File #: **8236B** Tax Parcel #: **007-171-31**

- 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):** 12/9/2015

Type of Installation: Residential - New System Lot Number: 4

Structure Type: HOUSE Size (ft^2): 4000 # Bedrooms: 5 # Occupants: 5

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: Approved **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1500	Total Trench Length (ft):	500
Maximum Trench Depth (in):	30	Depth of Media (in):	12	Distribution Device:	Distribution Box		

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

Repair System Specifications:

Design Flow (gpd):	600	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):	1000	Total Trench Length (ft):	333
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 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 Owner/Legal Agent: _____
Print Name

Signature: Jeremy Michelone, P.S. Signature: _____

Date Issued: 12/9/2010

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 #: **30004856** GWS File #: **8236B**

IV. Permit Conditions/Comments:

- 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.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- 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 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: 12/9/2010

Owner/Legal Agent: _____
Print Name

Signature: _____


IMPROVEMENT PERMIT FOR:
600 BRIDALPATH TRAIL
FILE # 8236B
00717114
00717135
632
00717130
BRIDLEPATH
611
00717134
Panel Block
Repair Area
60'
600
00717131
85'
House Site
5 lines x 100' x 3'
00717139
00717106
00717132
00717140
514
N
0
35
70
140
Feet
Map Created By: Jeremy Michelone, R.S.
Date: 12/9/10

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

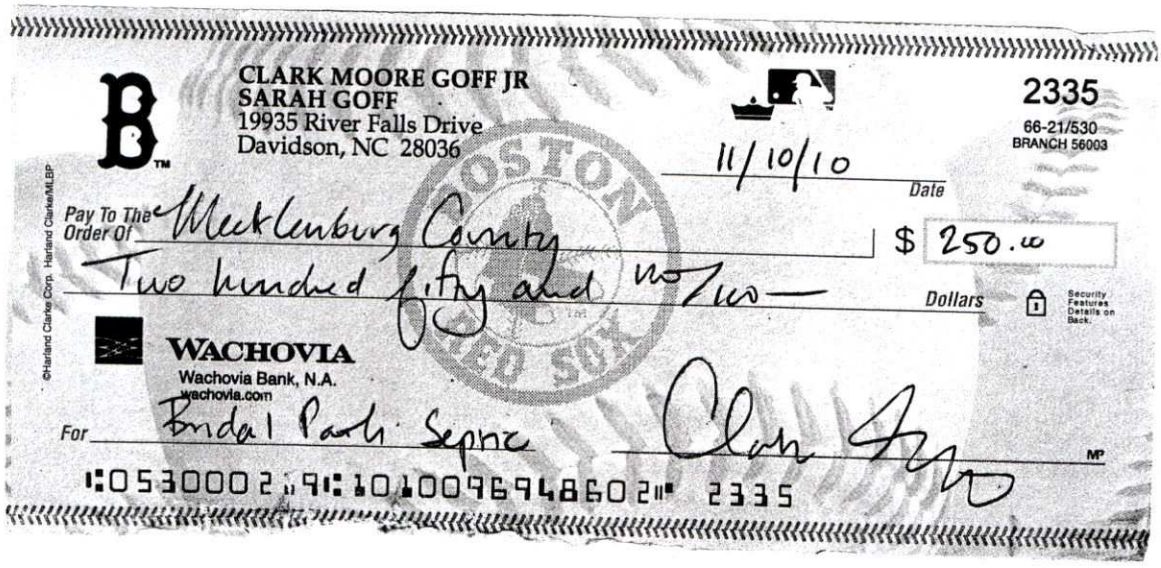
Receipt Information

Date:	11/10/10	**Amount:**	250.00
Receipt #:	69533	**Tendered:**	250.00
Check / Auth #:	CHECK 2335	**Returned:**	0.00
Received By:	MULLIVR		

Account Information

Account #: 200000
Contractor: GOFF CLARK MOORE
Attn:
Address: 19935 ROVER FALLS DR
Address:
City/State/Zip: DAVIDSON, NC 28036

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen PN 00717131//600 BRIDLEPATH		1	250.00	250.00



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

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