

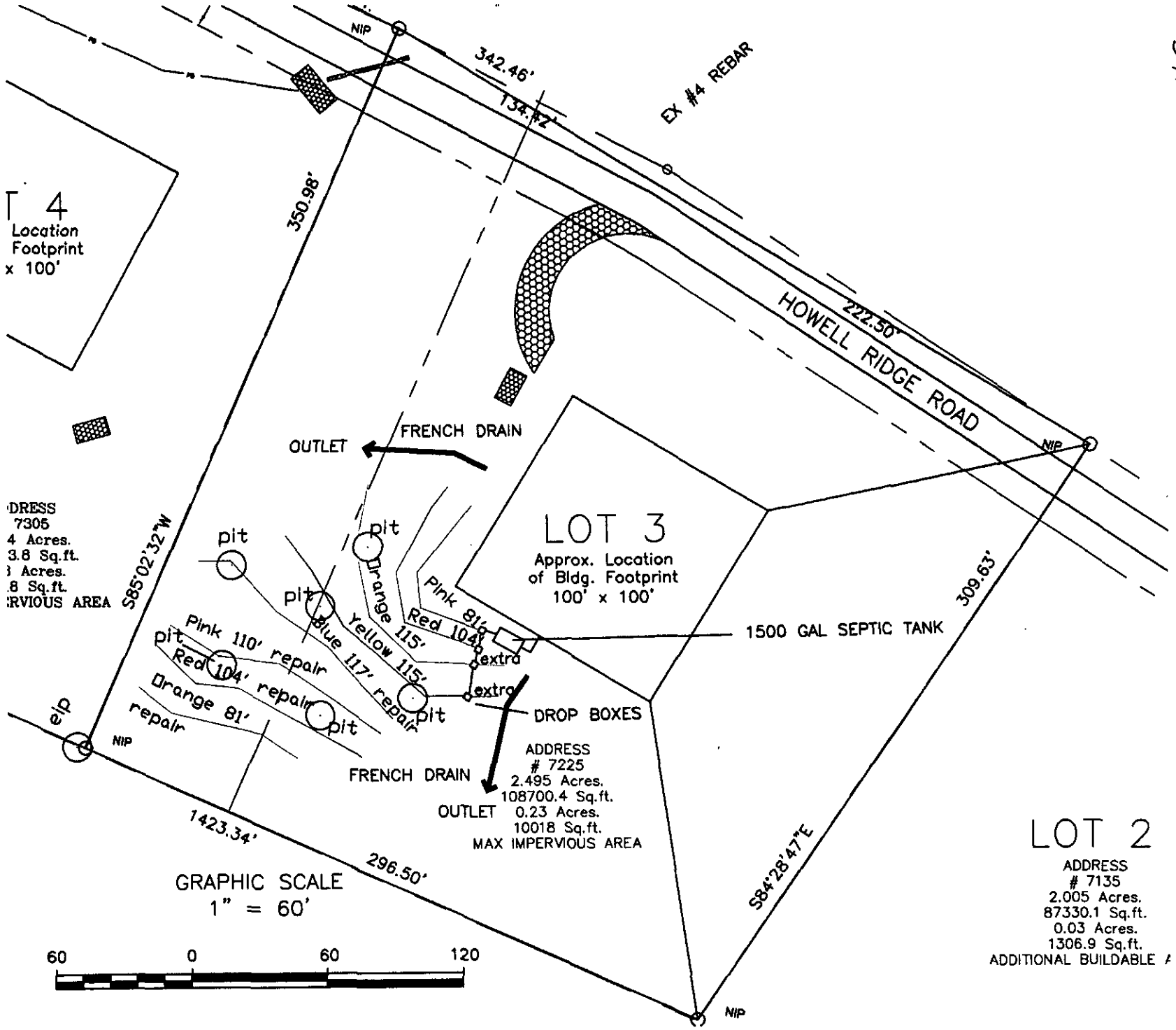
7225 HOWELL RIDGE RD

01546141

1/8/2008

duponbj

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


NIP
342.46'
134.42'
EX #4 REBAR
350.98'
HOWELL RIDGE ROAD
222.50'
NIP
T 4
Location
Footprint
x 100'
OUTLET
FRENCH DRAIN
LOT 3
Approx. Location
of Bldg. Footprint
100' x 100'
1500 GAL SEPTIC TANK
309.63'
S85°02'32"W
pit
Pink 110' repair
Red 104' repair
Orange 81' repair
Blue 117' repair
Yellow 115'
Orange 115'
Pink 81'
Red 104'
extra
extra
DROP BOXES
eip
NIP
FRENCH DRAIN
ADDRESS
7225
2.495 Acres.
108700.4 Sq.ft.
OUTLET 0.23 Acres.
10018 Sq.ft.
MAX IMPERVIOUS AREA
1423.34'
296.50'
S84°28'47"E
NIP
GRAPHIC SCALE
1" = 60'
60
0
60
120
LOT 2
ADDRESS
7135
2.005 Acres.
87330.1 Sq.ft.
0.03 Acres.
1306.9 Sq.ft.
ADDITIONAL BUILDABLE A

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 #: **30000785** GWS File #: **5455B** Tax Parcel #: **015-461-41**

- 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):** 5/17/2011

Type of Installation: Residential - New System Lot Number: 3

Structure Type: HOUSE Size (ft^2): 3000 # Bedrooms: 4 # Occupants: 3

Building Foundation: Basement With Plumbing Water Supply:

II. Initial System Type: Conventional **System Classification:** IIa

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.4	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1200	Total Trench Length (ft):	400
Maximum Trench Depth (in):	48	Depth of Media (in):	24	Distribution Device:	Drop Boxes		

III. Repair System Type: Conventional **System Classification:** IIa

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.4	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1200	Total Trench Length (ft):	400
Maximum Trench Depth (in):	48	Depth of Media (in):	24	Distribution Device:	Drop Boxes		

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, R.S. Signature:_____

Date Issued: 5/17/2006

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 #: **30000785** GWS File #: **5455B**

IV. Permit Conditions/Comments:

- Owner agreement forms for site reclassification shall be on file prior to issuance of Construction Authorization.
- All drainage improvements (swales, interceptor drains, etc.) noted on the plot plan must be inspected and approved prior to issuance of an Operation Permit.
- Septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.

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.
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- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michelone

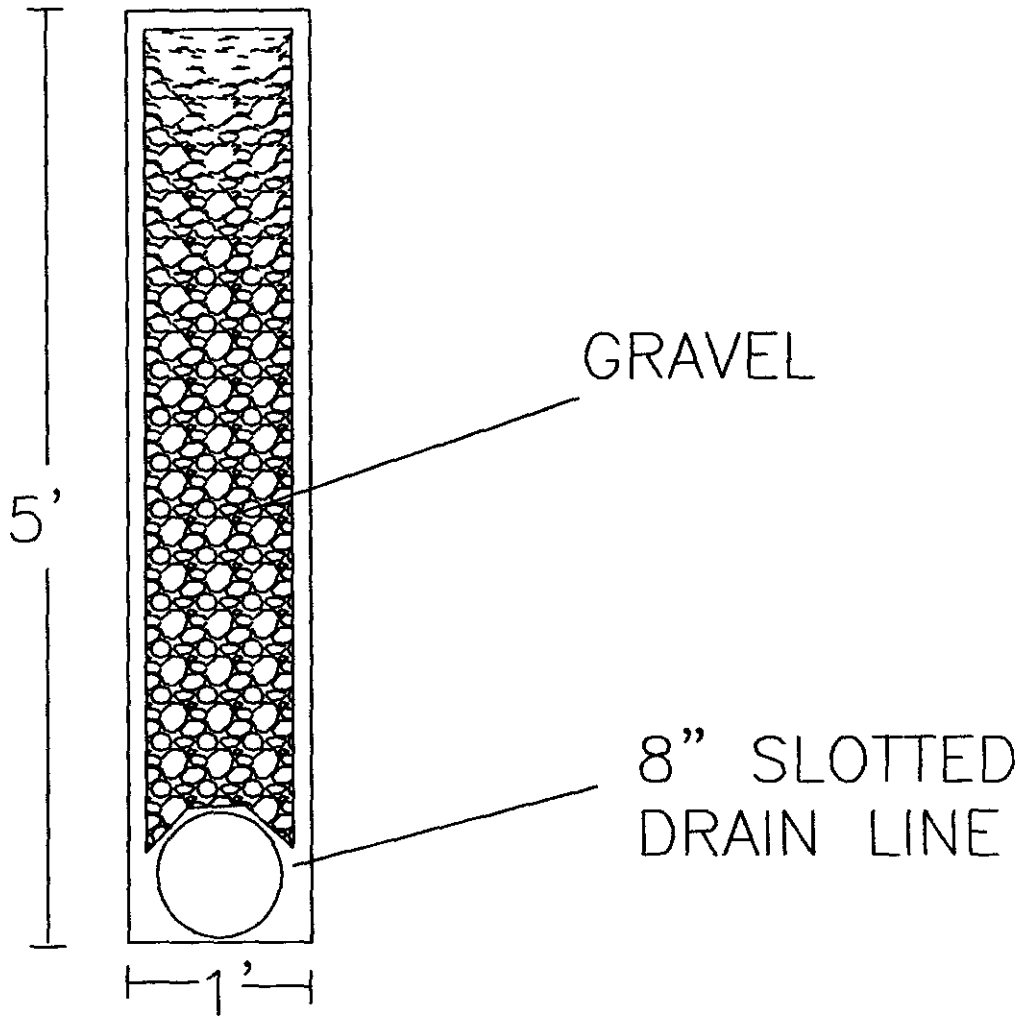
Signature: Jeremy Michelone, R.S.

Date Issued: 5/17/2006

Owner/Legal Agent: _____
Print Name

Signature: _____

TYPICAL FRENCH DRAIN DETAIL



S&EC

Soil & Environmental Consultants, PA

236 LePhillip Court, Suite C • Concord, North Carolina 28025 • Phone: (704) 720-9405 • Fax: (704) 720-9406
www.SandEC.com

Transmittal

To: JEREMY MIKELONE

MECK CO. HEALTH DEPT

700 N TRYON ST

CHARLOTTE NC 28202

Project #: S-1385

Date: 5/15/2006

Project Name: TERRANCE ATKINSON - LYNN ESTATES

File:

We Transmit to you Herewith:

- [X] Drawings
- [X] Specifications
- [ ] Brochures or photos
- [ ] Correspondence
- [ ] As per your request

- [X] For your information and files
- [X] For comment or approval
- [ ] Returned for correction, resubmit
- [ ] Approved as noted

Under Separate Cover:

- [X] By mail
- [ ] By courier
- [ ] By express

No. Copies	Document No.	Date	Description
1			LOTS 3 OF LYNN ESTATES SEPTIC
			LAYOUT/SITE PLAN/SOIL NOTES

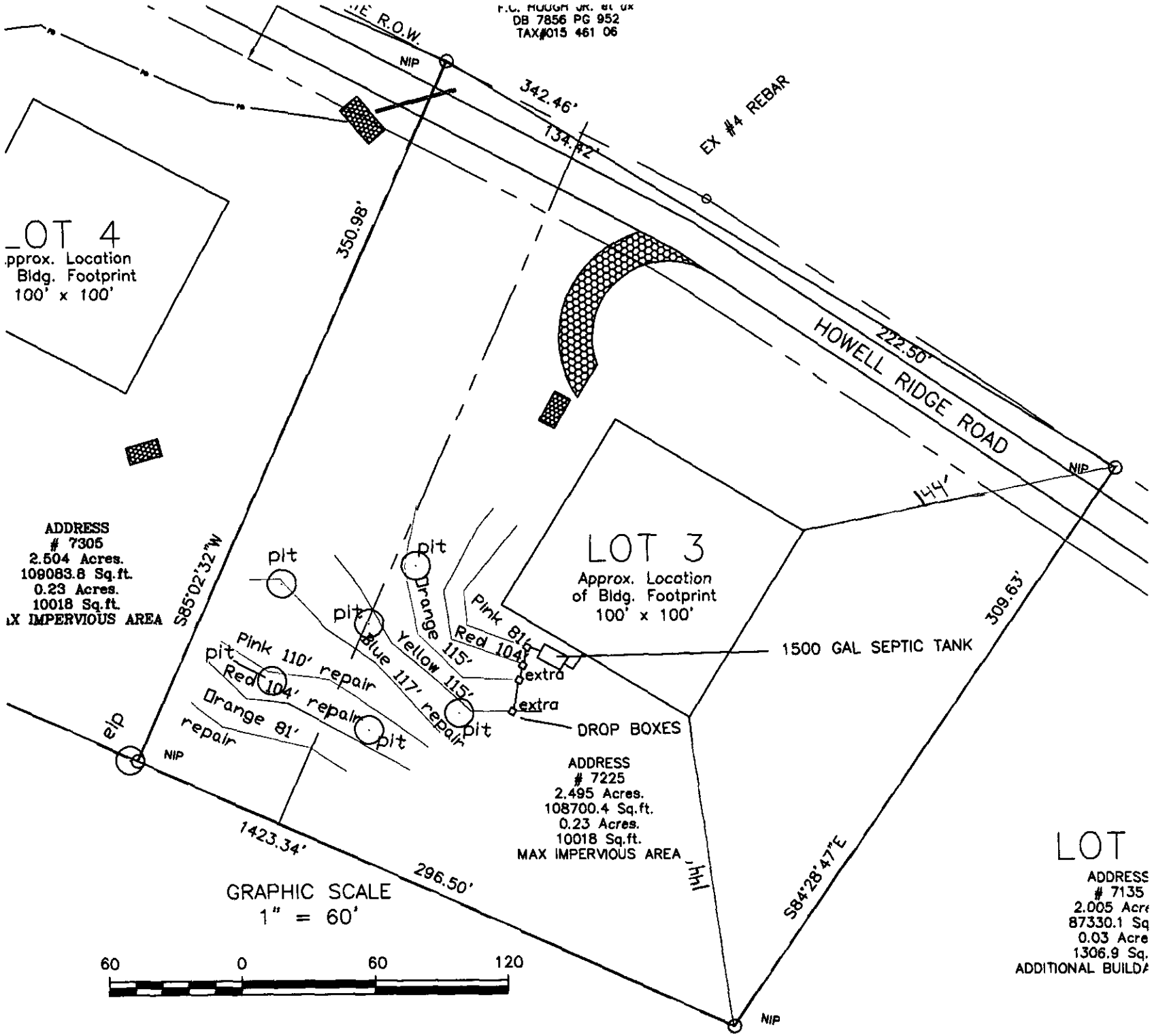
Remarks:

If enclosures are not as listed as above, kindly notify us at once.

By: Wendell Overby

Greensboro Office:
3817-E Lawndale Drive
Greensboro, NC 27455
Phone: (336) 540-8234
Fax: (336) 540-8235

Raleigh Office:
11010 Raven Ridge Road
Raleigh, NC 27614
Phone: (919) 846-5900
Fax: (919) 846-9467


P.C. HOUGH JR. ET UX
DB 7856 PG 952
TAX#015 461 06
R.O.W.
NIP
342.46'
134.82'
EX #4 REBAR
LOT 4
Approx. Location
Bldg. Footprint
100' x 100'
350.98'
222.50'
HOWELL RIDGE ROAD
NIP
144'
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2.504 Acres.
109083.8 Sq.ft.
0.23 Acres.
10018 Sq.ft.
MAX IMPERVIOUS AREA
S85°02'32"W
pit
pit
pit
Orange 115'
Pink 81'
Red 104'
Yellow 115'
Blue 117' repair
Pink 110' repair
Red 104' repair
Orange 81' repair
pit
pit
pit
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Approx. Location
of Bldg. Footprint
100' x 100'
1500 GAL SEPTIC TANK
309.63'
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DROP BOXES
e/p
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108700.4 Sq.ft.
0.23 Acres.
10018 Sq.ft.
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S84°28'47"E
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GRAPHIC SCALE
1" = 60'
60
0
60
120
LOT
ADDRESS
7135
2.005 Acr
87330.1 Sq
0.03 Acre
1306.9 Sq.
ADDITIONAL BUILD

Lot 3 Lynn Estates

Project No. 5-1385s1

LAYOUT FOR 4 BEDROOM HOME — February 28,2005

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM				2.10	100.00		
INSTR. 1			100.00				
*1	*PINK*			*3.80*	*96.20*	*81*	*81*
*2	*RED*			*4.00*	*96.00*	*104*	*104*
*3	*ORANGE*			*4.40*	*95.60*	*130*	*115*
*4	*YELOW*			*5.00*	*95.00*	*125*	*115*
5	BLUE			5.60	94.40	117	117
6	PINK			6.50	93.50	110	110
7	RED			7.20	92.80	104	104
8	ORANGE			8.30	91.70	81	81
					Total	**852**	**827**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	INNOVATIVE SYSTEM	DISTRIBUTION
** System*	*415*	*0.36*	*CONV.*	*0.40*	*N/A*	**DROP BOX**
Repair	412	0.39	*CONV.*	0.40	N/A	**DROP BOX**

Notes:

**System and repair to be installed in saprolite

**Design assumes gravity fall from house to tank to field

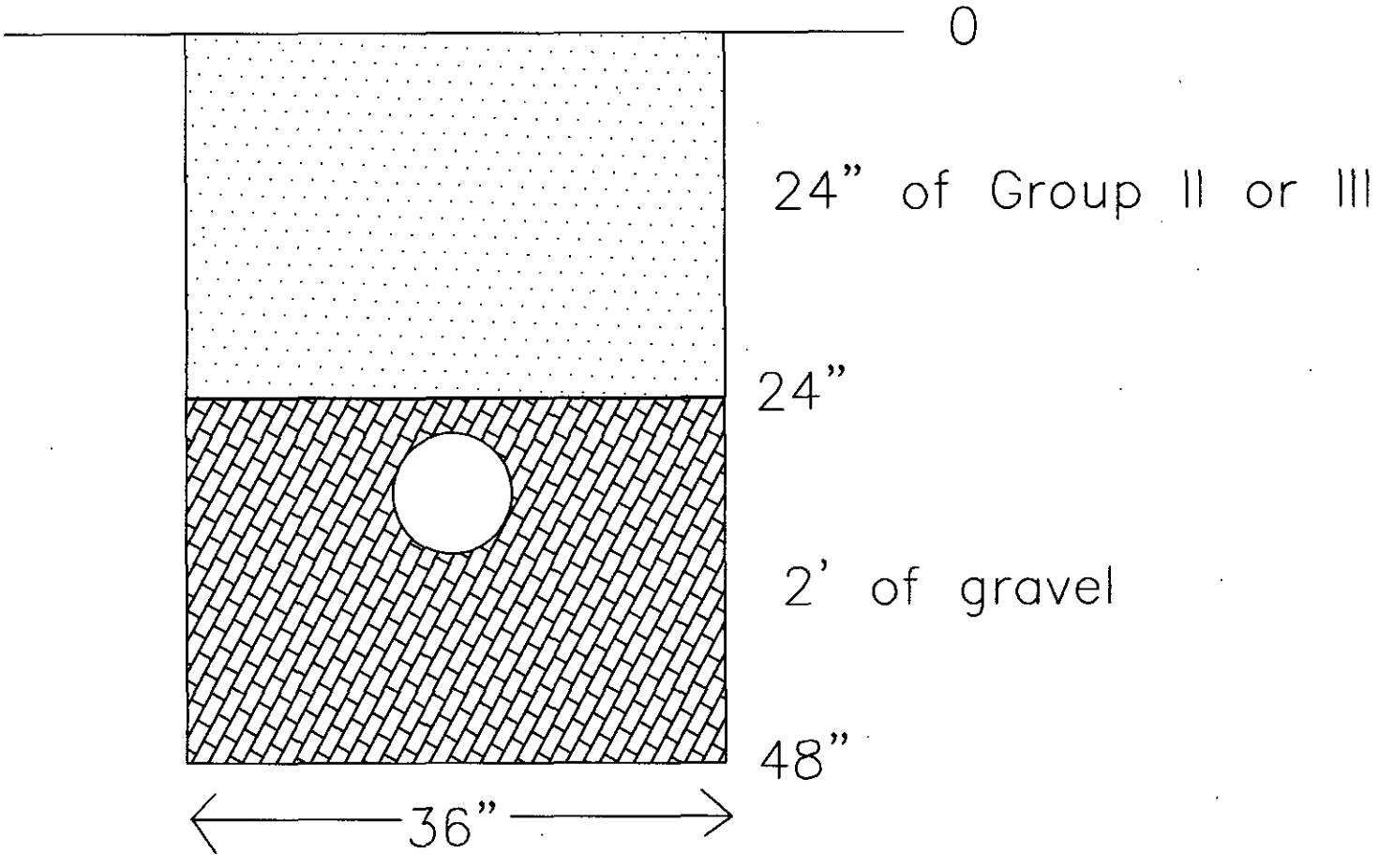
**TBM is assumed to be 100'

**All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**BS, HI, and FS indicate rod readings

TYPICAL TRENCH DETAIL



1" = 12"

Profile Description
Mecklenburg County
Terrance Atkinson- Lot 3

Pit 1

Horizon	Depth	Color	Mottles	Texture	Structure
A	0-3"	10YR 4/3		Sandy loam	Granular
Bt	3-15"	10YR 4/4		Clay	Angular blocky
C	15-50"+	multicolor	10YR 6/6	Sandy loam	Saprolite

Pit 2

Horizon	Depth	Color	Mottles	Texture	Structure
A	0-2"	10YR 4/3		Sandy loam	Granular
Bt	2-22"	10YR 4/3		Clay	Angular blocky
C1	22-54"	multicolor	10YR 4/6	Sandy loam	Saprolite
C2	54-66"+	multicolor	10YR 6/4	Loam	Saprolite

Pit 3

Horizon	Depth	Color	Mottles	Texture	Structure
A	0-2"	10YR 3 /4		Sandy loam	Granular
Bt	2-17"	10YR 4/3		Clay	Angular blocky
BC	17-32"	10YR 5/6		Clay +Sap	Sless
C	32-55"	multicolor	5Y 8/2	Sandy loam	Saprolite

Pit 4

Horizon	Depth	Color	Mottles	Texture	Structure
A	0-2"	10YR 3 /3		Sandy loam	Granular
Bt	2-22"	10YR 4/3		Clay	Angular blocky
C1	22-36"	2.5Y 6/6	Black rock	Sandy loam	Saprolite
C2	36-70"	multicolor	2.5YR 5/8	Sandy loam	Saprolite

Pit 5

Horizon	Depth	Color	Mottles	Texture	Structure
A	0-2″	10YR 3 /3		Sandy loam	Granular
Bt	2-17″	7.5YR 3/3		Clay	Angular blocky
BC	17-36″	Multicolor	10YR 6/6	Sandy clay loam	Sub ang blocky
C2	36-60″	Multicolor	2.5YR 4/8	Sandy loam	Saprolite

Pit 6

Horizon	Depth	Color	Mottles	Texture	Structure
A	0-3″	10YR 4/4		Sandy loam	Granular
Bt1	3-7″	10YR 4/4		Clay loam	Subang blocky
Bt2	7-16″	10YR 5/8		Clay	Ang blky
BC	16-40″	10YR 5/8	2.5YR 5/8	Clay loam	Subang blocky
C	40-88″	multicolor		Sandy loam	Saprolite

Pit 7 = Unsuitable

Pit 8

Horizon	Depth	Color	Mottles	Texture	Structure
A	0-3	10YR 3 /3		Sandy loam	Granular
Bt	3-8″	10YR 4/4		Sandy clay loam	Subangular blocky
BC	8-22″	multicolor		Clay + Sap	Sless
C	22-55″	multicolor	2.5Y 7/6	Sandy loam	Saprolite

Pit 9

Horizon	Depth	Color	Mottles	Texture	Structure
BA	0-12″	10YR 4/4		Clay	Massive
Bt	12-22″	5Y 4/6		Clay loam	Subangular blocky
C1	22-40″	Multicolor		Sandy loam	Saprolite
C2	40-62″	multicolor		Loam	Saprolite

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

Sheet: 1
Property ID: 015-461-41
Lot #: 3
File #: 5455B
Code: 3

ACS

SOIL/SITE EVALUATION FOR ON-SITE WASTEWATER SYSTEM

Owner: Terrence L. Atkinson
Applicant:
Address: 9504 Beatties Ford Road, Charlotte, N. C. 28078
Date Evaluated: 02/01/2004
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: 2.5a
Location of Site: 7225 Howell Ridge 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, 6	0-4	GR/CL	FR/SEXP/SS/SP	>17" TO SOIL WETNESS	17	N/A	NONE	US
		4-17	SBK/C	VFI/EXP/VS/VP					
2	"	0-3	GR/SCL	FR/SEXP/SS/SP	2.5Y6/1@11"	14	"	"	"
		3-14	SBK/C	VFI/EXP/VS/VP					
3	"	0-3	GR/SCL	FR/SEXP/SS/SP	>14" TO SOIL WETNESS	"	"	"	"
		3-14	SBK/SC	VFI/EXP/VS/VP					
4	"	0-3	GR/SCL	FR/SEXP/SS/SP	>20" TO SOIL WETNESS	20	"	"	"
		3-20	SBK/SC	FI/EXP/VS/VP					
5	"	0-2	GR/CL	FR/SEXP/S/SP	>9" TO SOIL WETNESS	9	"	"	"
		2-9	SBK/C	VFI/EXP/VS/VP					
6	"	0-3	GR/CL	FR/SEXP/SS/SP	>21" TO SOIL WETNESS	21	"	"	"
		3-21	SBK/C	VFI/EXP/VS/VP					

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

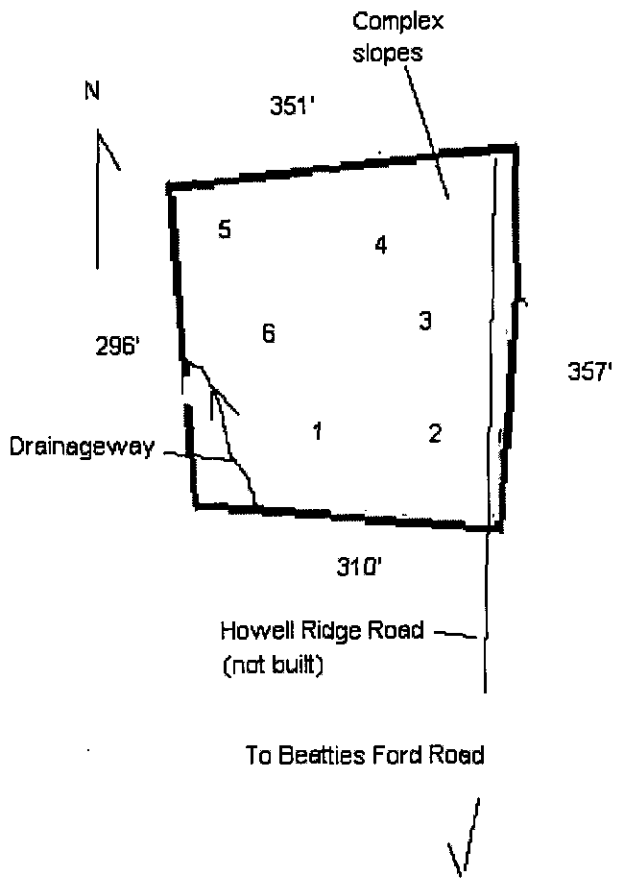
Other Factors (.1946): _____
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 2/11/2004, W. R. Marlin
Others Present:

FILE # 5455B

COMMENTS: 100% repair

LANDSCAPE POSITIONS	GROUP	TEXTURES	.1955 LTAR	CONSISTENCE MOIST	WET
R-RIDGE	I	S-SAND	1.2 - 0.8		
S-SHOULDER SLOPE		LS-LOAMY SAND		VFR-VERY FRIABLE	NS-NON-STICKY
L-LINEAR SLOPE				FR-FRIABLE	SS-SLIGHTLY STICKY
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8 – 0.6	FI-FIRM	S-STICKY
N-NOSE SLOPE		*L-LOAM*		VFI-VERY FIRM	VS-VERY STICKY
H-HEAD SLOPE				EFI-EXTREMELY FIRM	NP-NON-PLASTIC
CC-CONCLAVE SLOPE	III	SI-SILT-	0.6 – 0.3		SP-SLIGHTLY STICKY
CV-CONVEX SLOPE		SIL-SILT LOAM			P-PLASTIC
T-TERRACE		CL-CLAY LOAM			VP-VERY PLASTIC
FP-FLOOD PLAN		SCL-SANDY CLAY LOAM			
		SICL-SILTY CLAY LOAM			
	IV	SIC-SILTY CLAY	0.4 – 0.1		
		C-CLAY			
		SC-SANDY CLAY			

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



FEE: 200.00
DATE: 12/3/03 JKA
V159

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

#185

[ ] 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 #: 54553

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 015-461-43

STREET ADDRESS: 7225 Howell Ridge Rd

SUBDIVISION OR MOBILE HOME PARK NAME: Lynn Estates

LOT NUMBER: Three (3)

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: 3,000 - 6,000

NUMBER OF BEDROOMS: 5-4 NUMBER OF OCCUPANTS:

CLOSING DATE _____

FOUNDATION FOR RESIDENCE:

___ WITHOUT BASEMENT
___ ON SLAB
___ CRAWL SPACE
X 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: X YES ___ NO TYPE: Construction

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 X YES ___ NO
WELL, SPRINGS OR WATERLINES ___ YES X NO
DESIGNATED WETLANDS ___ YES X NO

PROPERTY OWNER:

NAME: Atkinson Terrence L.
(LAST) (FIRST) (MI)

ADDRESS: 9509 Beatties Ford Rd

CITY: Huntersville STATE: N.C. ZIP: 28078

DAYTIME PHONE: ( ) 704-507-4752

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME:
(LAST) (FIRST) (MI)

DAYTIME PHONE: ( ) -

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 11/11/03

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: Terrence L. Atk DATE: 12/02/03

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

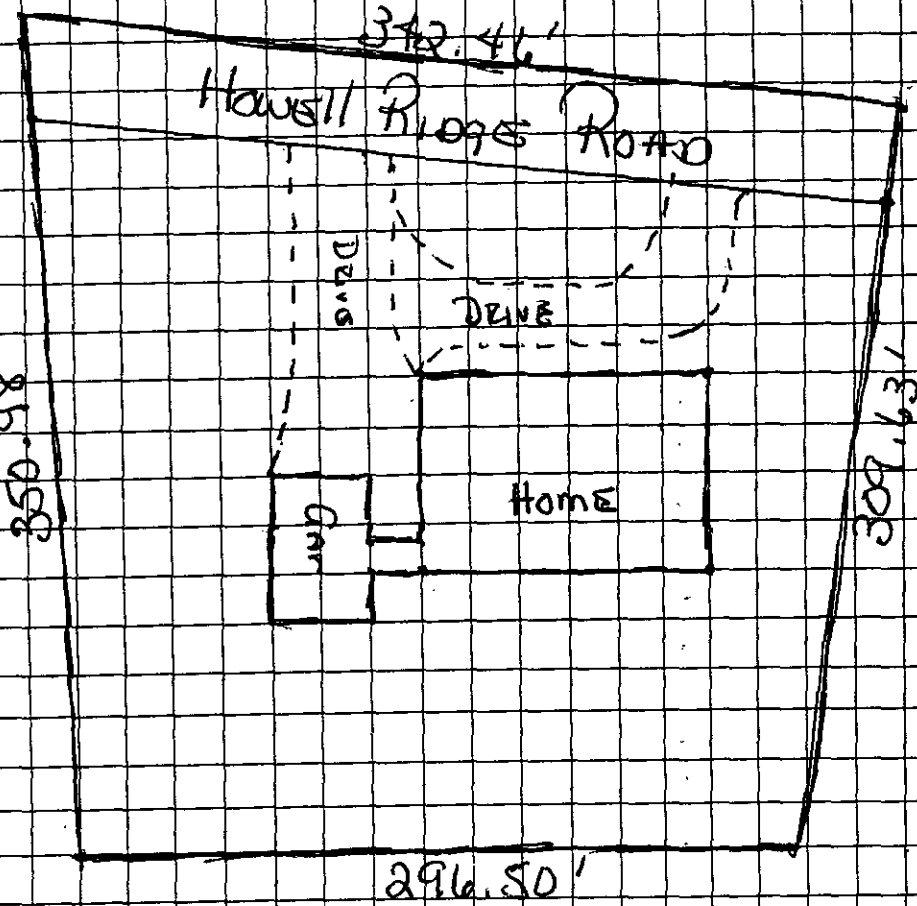
PROPOSED PLOT PLAN

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

FILE: 54553

TC: 015 - 461 - 43

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.



APPROVAL DATE _____

OWNER/AGENT SIGNATURE

DATE

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

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 12/03/03
Receipt #: 19966
Check / Auth #: VISA 175532
Received By: AIDOOJK

Amount: 1,000.00
Tendered: 0.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: AIKINSON TERRENCE L
Attn:
Address: 9504 BEATTIES FORD ROAD
Address:
City/State/Zip: HUNTERSVILLE, NC 28078

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen HOWELL RIDGE ROAD LOT 1,3-6		1	1,000.00	1,000.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
50.00					