

20204 SHEARER RD

00335121

1/10/2008

duponbj

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

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All Monies
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8/17/06

FOR REGISTRATION JUDITH A. GIBSON
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC
2006 AUG 17 12:29 PM
BK:20916 PG:888-891 FEE:$20.00

INSTRUMENT # 2006159412

2006159412

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

WASTEWATER TREATMENT AND DISPOSAL SYSTEM DESIGN AGREEMENT: 15A NCAC 18A .1948 AN ANY OF THE FOLLOWING RULES: .1956; .1957(a); .1957(b); OR .1957(c); OR .1969

FILE #: 6320B

PARCEL #: 09-335-121

The undersigned, FLAGSTONE FINE HOMES owner of property located at Lot C; 20204 Shearer Rd., (the "site") and described in an instrument recorded in Book DB 9313 at Page 191, 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 will apply to the site:

This instrument was prepared by: Rollans Septic/Environmental

Mail after recording to: 10620 BAILEY RD SUITE G
CORNELIUS, NC 28031

08 17 2006 01:22 PM LUESA Mecklenburg County 704 432 2523 6 9

- Any changes on the property may make the Improvement Permit null and void and may make the Improvement Permit subject to revocation.

- Do not grade, cut, fill, pave, construct a building or deck, dig a well, install a swimming pool or otherwise cover or disturb the soil (except for planting and maintaining grass or other ground covers) in a manner which will adversely affect the repair area or area where the septic tank system is located.

- When a private certified operator is required, no improvement permit for the designated repair shall be issued unless there is a private certified operator to carry out this management program in the service area where the proposed system is to be located. (Refer to rule .1961, Maintenance of Sewage Systems," for further information.)

- Additional fees will be required according to the Mecklenburg County user fee schedule applicable at the time for the issuance of a repair permit for any subsequent repairs to the sewage treatment and disposal system or for installation of a replacement system.

- At the time repairs to the sewage treatment and disposal system are to be made or a replacement system installed, the regulation in effect at the time will govern the repairs or installation of a replacement system.

The undersigned further agrees for himself, his heirs and assigns that he shall indemnify and hold harmless the Department, its employees, and officials, as well as Mecklenburg County and its employees and officials, for any damages or other claims of any person or persons whatsoever arising out of the installation, operation, or failure of said septic tank system.

Use of the singular masculine pronoun forms herein shall be deemed to also include the plural and feminine forms as the context may require.

This document shall be placed on the public records of the Register of Deeds of Mecklenburg County and indexed therein under the Grantor Index in name or names of the undersigned, and the foregoing acknowledgements shall henceforth be binding on all persons claiming any right, title, or interest in the site.

IN WITNESS WHEREOF, the undersigned has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, this 5 day of May, 2006.

Flagstone Fine Homes (SEAL)
(Corporate Name)

(SEAL)

By: (SEAL)

Adam Sumner President (SEAL)

08 17 2006 01:22 PM LUESA Mecklenburg County 704 432 2523 p 9

ATTEST: Elisabeth Slater

Secretary

(Corporate Seal)

STATE OF NORTH CAROLINA

COUNTY OF Meck

I, Elizabeth Slater LA Batchelor, a Notary Public for said County and State, do hereby certify that Elizabeth Slater personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal this 18 day of May, 2006.

LA Batchelor

Notary Public

My Commission Expires: My Commission Expires March 21, 2009

STATE OF NORTH CAROLINA

COUNTY OF Meck

I, LA Batchelor, a Notary Public for said County and State, do hereby certify that Elizabeth Slater personally came before me this date and acknowledged that ~~she~~ he is ——— Secretary of Flagstone Fine Homes, a North Carolina corporation, and that by authority duly given and as the act and deed of said corporation, the foregoing instrument was signed in its name by its ——— President, sealed with its corporate seal, and attested by Elisabeth Slater as its ——— Secretary.

WITNESS my hand and notarial seal this 18 day of May, 2006.

LA Batchelor

Notary Public

My Commission Expires: My Commission Expires March 21, 2009

REVISED 8-13-02

08/17/2006 01:22 PM LUESA Mecklenburg County 704 432 2523 8 9

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 #: **30000282** GWS File #: **6320B** Tax Parcel #: **003-351-21**

- 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):** 5/2/2011

Type of Installation: Residential - New System Lot Number: 0

Structure Type: HOUSE Size (ft^2): 4700 # Bedrooms: 4 # Occupants: 5

Building Foundation: Crawl Space Water Supply: Private Well

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

Initial System Specifications:

Design Flow (gpd): 480 LTAR (gpd/ft^2): 0.3 Septic Tank Size (gal): 1500 Pump Tank Size (gal): [redacted]

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area (ft^2): 801 Total Trench Length (ft): 267

Maximum Trench Depth (in): 36 Depth of Media (in): N/A Distribution Device: Distribution Box

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

Repair System Specifications:

Design Flow (gpd): 480 LTAR (gpd/ft^2): 0.3 Septic Tank Size (gal): 1500 Pump Tank Size (gal): 1000

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area (ft^2): 801 Total Trench Length (ft): 267

Maximum Trench Depth (in): 0 Depth of Media (in): N/A Distribution Device: Pressure Manifold

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: Cina Buchanan Owner/Legal Agent: Elizabeth Slater

Signature: Cina Buchanan, RS Signature:

Print Name

Date Issued: 5/2/2006

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 #: **30000282** GWS File #: **6320B**

IV. Permit Conditions/Comments:

- Owner agreement forms for site reclassification shall be on file prior to issuance of Construction Authorization.
- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- Septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.

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: Cina Buchanan

Signature: Cina Buchanan, RS

Date Issued: 5/2/2006

Owner/Legal Agent: Elizabeth Slate
Print Name

Signature:

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 05/11/06
Receipt #: 43843
Check / Auth #: CHECK 5028
Received By: AIDOOJK

Amount: 150.00
Tendered: 150.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: FLAGSTONE FINE HOMES
Attn:
Address: 10620 BAILEY ROAD S-J
Address:
City/State/Zip: CORNELIUS, NC 28031

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Auth for Waste Wtr Sys Constr SHEARER ROAD LOT C		1	150.00	150.00

Outstanding Balances

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

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 05/11/06
Receipt #: 43844
Check / Auth #: CHECK 5028
Received By: AIDOOJK

Amount: 150.00
Tendered: 150.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: FLAGSTONE FINE HOMES
Attn:
Address: 10620 BAILEY ROAD S-J
Address:
City/State/Zip: CORNELIUS, NC 28031

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Installation/Final Approval SHEARER ROAD LOT C		1	150.00	150.00

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

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

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

Sheet: 1 of 2
Property ID: 003-351-21
Lot #: C
File #: 6320B
Code: 2

AC5

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: James & Marquita Brantley
Applicant: Elisabeth Slater
Address: 117 Sweet Barley Court, Grayson, Ga. 30017
Date Evaluated: 1/24/06
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: 1.98a
Location of Site: Shearer Road
Property Recorded:
Water Supply: [ ] Public [x] Individual [x] 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, 15	0-6	GR/SCL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV
		6-31	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
		31-48	SBK/SCL	FR/SEXP/SS/SP					
2	"	0-28	DISTURBED, SOME DEBRIS PRESENT						
		NEED	PIT IF AREA	NEEDED FOR SYSTEM					
3	LS, 10	0-6	GR/SCL	FR/SEXP/SS/SP	>31" TO SOIL WETNESS	31	"	"	US, IV
		6-31	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
4	"	0-5	GR/SCL	FR/SEXP/SS/SP	>16" TO SOIL WETNESS	16	"	"	US, IV
		5-16	SBK/SC	FI/SEXP/S/P					
5	"	0-4	GR/SCL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	"	"	PS, IV
		4-26	SBK/SC	FI/SEXP/S/P					.3GPD/FT^2
		26-38	SBK/SCL	FR/SEXP/SS/SP					
		38-48	SBK/SL	FRSEXP/NS/NP					
6	LS, 8	0-5	GR/SCL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	"	"	"	"
		5-40	SBK/SC	FI/SEXP/S/P					
		40-48	SBK/SCL	FR/SEXP/SS/SP					
7	"	0-6	GR/SCL	"	>50" TO SOIL WETNESS	50	"	"	"
		6-35	SBK/SC	FI/SEXP/S/P					
		35-50	SBK/SCL	FR/SEXP/SS/SP					

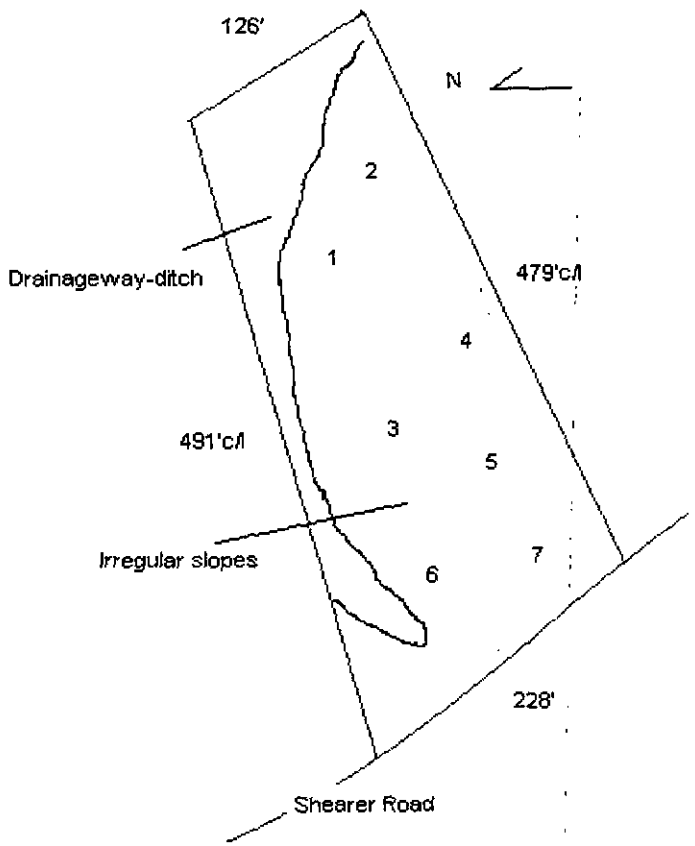
Description	Initial System	Repair System
Available Space (.1945)	PS	US
System Type(s)		
Site LTAR	.3GPD/FT^2	.3GPD/FT^2

Other Factors (.1946):
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 1/25/2006, W. R. Marlin
Others Present:

COMMENTS:
100% repair

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-Food 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				
FP-Flood Plain		CL-Clay Loam		
		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	



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

Sheet: 1 of 2
Property ID: 003-351-21
Lot #: C
File #: 6320B
Code: 2

2nd site

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: James & Marquita Brantley
Applicant: Elisabeth Slater
Address: 117 Sweet Barley Court, Grayson, Ga. 30017
Date Evaluated: 2/6/06
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: .2a inv.
Location of Site: Shearer Road
Property Recorded:
Water Supply: [ ] Public [x] Individual [x] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [x] 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, 8	0-23	DISTURBED		>51" TO SOIL WETNESS	51+	N/A	NONE	PS, IV
		23-51	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-16	DISTURBED		>54" TO SOIL WETNESS	54+	"	"	"
		16-51	SBK/C	FI/SEXP/S/P					
3	"	0-12	DISTURBED		>48" TO SOIL WETNESS	48+	"	"	"
		12-48	SBK/C	FI/SEXP/S/P					
4	"	0-14	DISTURBED		>62" TO SOIL WETNESS	62+	"	"	"
		14-62	SBK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)	US	
System Type(s)		
Site LTAR	.3GPD/FT^2	

Other Factors (.1946):
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 2/7/2006, W. R. Marlin
Others Present: C. Buchanan

COMMENTS:

100% repair, area investigated for initial system, recommend use of subsurface interceptor drain upslope from drainfield

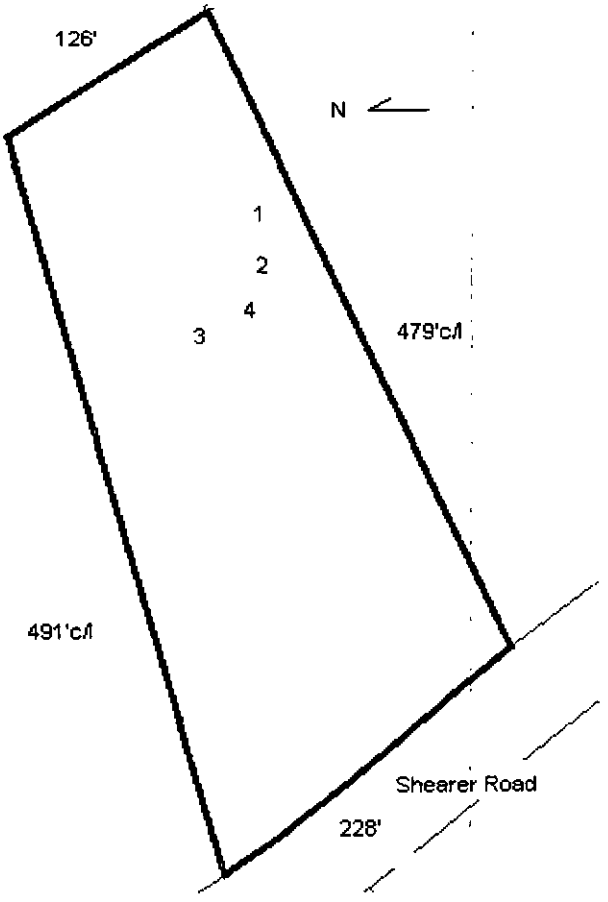
Landscape Position	Group	Texture	.1955 LTAR
R-Ridge	I	S-Sand	1.2 - 0.8
SS-Shoulder Slope		LS-Loamy Sand	
LS-Linear Slope			
FS-Food Slope	II	SL-Sandy Loam	0.8 - 0.6
NS-Nose Slope		L-Loam	
HS-Head Slope			
CC-Concave Slope	III	SI-Silt	0.6 - 0.3
CV-Convex Slope		SICL-Silty Clay Loam	
T-Terrace			
FP-Flood Plain		CL-Clay Loam	
		SCL-Sandy Clay Loam	
	IV	SC-Sandy Clay	0.4 - 0.1
		SIC-Silty Clay	
		C-Clay	

Structure
SG-Single Grain
M-Massive
CR-Crumb
GR-Granular
SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic

Consistence Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence Wet
NS-Non-Sticky
SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

Mineralogy
SEXP-Slightly Expansive
EXP-Expansive



100.00 Optional Site Evaluation 2/2/06

X379963

GWS – RES. APP 12/04

SEPTIC FEE: $200.00
DATE: 1-19-06
CRT [ ]

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

WELL FEE:
DATE:
CRT [ ]

FILE # 6320B

SEPTIC / TYPE APPLICATION: ☐ NONE ☑ NEW SYSTEM EXISTING SYSTEM : ☐ EXPANSION/ALTERATION ☐ REPAIR

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

JOB LOCATION INFORMATION:

TAX/PARCEL #: 00-335-121
STREET ADDRESS: LOT "C" SHEARER
CITY: DAVIDSON
STATE: NC ZIP: 28036
SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #: DB 9313 PG 191
TOWNSHIP:

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

BUILDING INFORMATION:

TYPE OF BUILDING:

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

HEATED SQUARE FOOTAGE: 4700 ±
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 5±

FOUNDATION FOR RESIDENCE:

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

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

NUMBER OF BEDROOMS TO BE ADDED: NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:
WILL THERE BE A HOME BUSINESS IN THE RESIDENCE? ☐ YES ☐ NO TYPE:

WATER SUPPLY:

☐ MUNICIPAL (M) ☐ PUBLIC (C) ☑ PRIVATE WELL (P) ☐ SHARED WELL (S) ☐ OTHER 'SPRINGS' (O)

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

ARE ANY OF THE FOLLOWING LOCATED ON THE PROPERTY? IF SO, PLEASE SHOW LOCATION ON SITE PLAN/PLAT.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES	☑ NO	WELLS, SPRINGS, OR WATER LINES	☐ YES	☑ NO
EXISTING WASTEWATER SYSTEMS	☐ YES	☑ NO	DESIGNATED WETLANDS	☐ YES	☑ NO
EASEMENTS OR RIGHT-OF-WAYS	☑ YES	☐ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES	☑ NO

PROPERTY OWNER: JAMES + MARGUITA BRANTLEY
NAME:
ADDRESS: 117 Sweet Barley CT
CITY: Grayson
STATE: GA ZIP: 30017
HOME PHONE: WORK PHONE:
MOBILE PHONE: FAX:

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: ELISABETTA SLATER
ADDRESS: 10620 BAILEY RD, J
CITY: CORNELIUS
STATE: NC ZIP: 28031
HOME PHONE: 704 WORK PHONE: 987 1938
MOBILE PHONE: 716 36713 FAX: 987 1939

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 1-31-89
WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 2-14-06

*An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

1-18-06
Owner's/Agent's Signature Date

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

*A Well Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

1-18-06
Owner's/Agent's Signature Date

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

Mecklenburg County
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

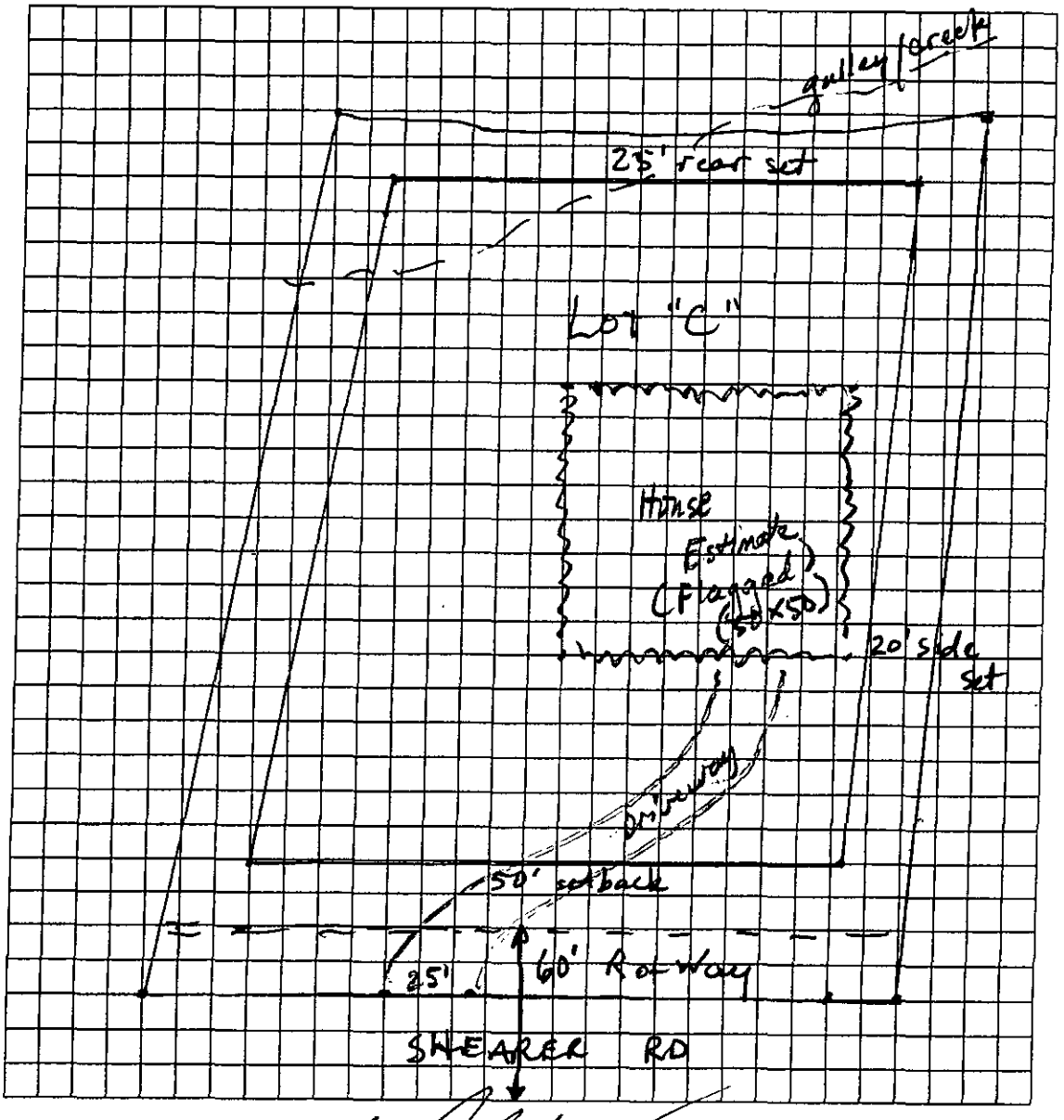
File # Lo320B
Date _____

Property is under contract to sell to Adam Slater Flagstone Fine Homes.

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.

Site is on Shearer Rd, north of Runneymede Sub. and south of Homestead Sub. on RT side as heading north. There is a sign for Helen [redacted] Adams Realty at site



Owner/Agent Signature _____

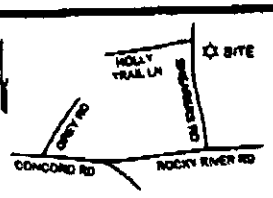
Date 1-19-06 704 763 6713

LBC 12/15/04

PHYSICAL SURVEY

HERRING PROPERTY, MAP 2
MAP BOOK 28, PAGE 1
LOT C

LEGEND
- FOUND OR SET REBAR
- LINES NOT SURVEYED
- EDGE OF PAVEMENT
- UTILITY POLE
- CATV PEDESTAL
- LANDMARK TIE (AS NOTED)



VICINITY MAP
NOT TO SCALE

N/F
THOMAS B. MOORE & ALTHEA R. LUNDY
DB. 15703, PG. 462
PID: 003-351-09

N/F
VIVIEN B. DIETZ &
JONATHAN P. BERKEY
DB. 8512, PG. 501
PID: 003-351-14

S30°54'27"E 22.61'
S36°53'14"E 126.46'
S52°10'37"E 37.90'

FOUND
FOUND 0.18'SW ON LINE
25' REARYARD
FOUND 0.36'SW 0.27'NW
FOUND 0.29'SW 0.13'NW

LOT B
N/F
RICHARD R. & ELIZABETH A. NORKUM
DB. 8850, PG. 558
PID: 003-351-20

460.02'
N73°05'17"E
20' SIDEYARD

LOT C
N/F
JAMES E. & MARQUITA L. BRANTLEY
DB. 9313, PG. 191
PID: 003-351-21

85,476 SQ.FT.
1.96 ACRES

20' SIDEYARD
L=448.63' R=4681.66'
CH BRG=S68°25'41"W
CH=448.46'

N/F
FRANKLIN C. & CANDUS A. TALAFOUS
DB. 8883, PG. 848
MB. 27, PG. 827
PID: 003-351-22

50' SETBACK

C1
R = 1135.74' L = 8.52'
CH BRG = N40°10'21"W
CH = 8.52'

PROPOSED 60' R/W (MB. 28, PG. 1)
FOUND
FOUND 0.47'NE ON LINE
C2
B
N40°22'52"W 107.36'
C1
S65°29'33"W 31.18' TIE

8,704 SQ.FT. (0.18 ACRES) DEDICATED IN MB. 28, PG. 1

EX. BOLT (CONTROL CORNER MB 28, PG. 1)

C2
R = 921.19' L = 108.60'
CH BRG = N37°05'26"W
CH = 108.54'

SHEARERS ROAD S.R. 2418
60' PUBLIC R/W

GENERAL NOTES:

1. APPARENT SOURCE OF TITLE: DEED BOOK 9313, PAGE 191.
2. PROPERTY SHOWN IS AN EXISTING PARCEL OF LAND.
3. LINEAR ERROR OF CLOSURE EXCEEDS 1:20,000.
4. AREA CALCULATED BY COORDINATE GEOMETRY METHOD.
5. N.C.G.S. MONUMENT NOT LOCATED WITHIN 2000' OF THIS SITE.
6. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO FACTS THAT SUCH MAY REVEAL.
7. UNLESS SIGNED AND SEALED THIS MAP IS PRELIMINARY.

NORTH CAROLINA PROFESSIONAL SEAL L-3660 LAND SURVEYOR JOHN W. BALZER

I, JOHN W. BALZER, CERTIFY THAT THIS PLAT WAS DRAWN FROM AN ACTUAL FIELD SURVEY PERFORMED UNDER MY DIRECT SUPERVISION. IS CORRECT TO THE BEST OF MY KNOWLEDGE.

JOHN W. BALZER
NCPLS L-3660

SUMMIT LAND SURVEYING COMPANY
19719 W. CATAWBA AVENUE
CORNELIUS, NC 28031
(704) 895-0855

PREPARED FOR
JAMES E. & MARQUITA L. BRANTLEY
LOT C SHEARERS ROAD
DEWEESE TOWNSHIP MECKLENBURG COUNTY
NORTH CAROLINA
NOVEMBER 1, 2005

GRAPHIC SCALE
0' 40' 80'
1" = 80'

JOB NO. 05-1246
DWG NO. 28-1-C

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	01/19/06	**Amount:**	200.00
Receipt #:	40209	**Tendered:**	200.00
Check / Auth #:	CHARGE	**Returned:**	0.00
Received By:	DAUGHVB		

Account Information

Account #: X37963
Contractor: SLATER ADAM
Attn:
Address: 10620 J BAILEY ROAD
Address:
City/State/Zip: CORNELIUS, NC 28031

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen LOT C SHEARER RD		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
200.00					

ROLLANS *SOIL & ENVIRONMENTAL SERVICES*

2120 Graham Road, Mount Ulla, NC 28125 *Phone/Fax (704) 278 – 0989*

Ashley Rollans, NC Licensed Soil Scientist
Mobile: (704) 746-5046
E-mail: Rollansfortcj@aol.com

Brady Freeman, Registered Sanitarian
Mobile: (704) 746-6497
E-mail: bfree209@yahoo.com

Attached is a proposed design for a PPBPS Septic System with gravity distribution for a 4 bedroom single family residence on Lot C Shearers Road, Mecklenburg County, North Carolina.

Contents: **Page**

Information for the Installer---------- 1

Design Information
- Design Specifications---------- 2-3
- Layout Specifications---------- 4
- System Tapsheet---------- 5
- Repair Tapsheet---------- 6

Site Plan/System Plan---------- 7

Calculations---------- 8

APPROVED AS NOTED ON 4/25/06 PER: TREVOR THOMPSON

March 7, 2006
Project No. 01-1089
Design By: Rollans Soil & Environmental Services

INFORMATION FOR THE INSTALLER:

The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.

- Tanks shall be approved by DEHNR, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench

1/4" / 10' IN TRENCH

45' = 1.125"

- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Pumptank riser should be 6" above grade, control panel should be 12" above grade.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a PPBPS installation.
- Repair is specified as a PPBPS installation.
- Backfill 4 - 6" of material (County Approved) over panels, rake trench walls, lime side-walls, install trenches 36" wide and have no more than 1/4" fall in 10 feet. (OK)

12" FILL IF SOIL DEPTH ALLOWS

LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant: Elizabeth Slater

Address: 10620 Bailey Road
Mooresville, NC 28031
Phone: *704-763-6713*
County: Mecklenburg
Location: Shearers Road Lot C

Source of Wastewater Flow: 4 Bedroom Single Family Residence
Estimated Daily Wastewater Production: 480 gpd
System Flow: NA

Design Specifications

Drainfield Size: 270
Loading Rate: 0.3 gpd/ft.^{2}
Depth of Gravel in Trench: NA (PPBPS)
Gravel Size: NA (PPBPS)
Trench Depth: 36 in.
Trench Width: 36 in.
Septic Tank Size: 1500
Pump Tank Size: 1500 1,000 PERMISSIBLE

Estimated Supply Line Length: 5
Supply Line Diameter: 2 in. SCH 40 PVC
Supply Line Volume: 0.87
Dosing Volume: ON DEMAND
Supply Manifold: D-Box
Supply Manifold Length: N/A
Supply Manifold Volume: N/A

Recommended Float Controls: NA

Recommended Control Panel: NA

Pressure Head: NA
Friction Head: NA
Elevation Head: NA
Total Dynamic Head: NA

Threaded Union: NA
Gate Valves: NA
NA
Check Valves: In Tank
Anti-Siphon Hole: NA
Additional Comments: Soil suitability was performed by Mecklenburg County Health Department.

Shearers Road Lot C
LP PPBPS

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.3 gpd/ft²
TOTAL AREA TRENCH BOTTOM:	810
TOTAL LATERAL LENGTH:	270
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	266.6666667
SUPPLY LINE LENGTH:	5
TOTAL DYNAMIC HEAD:	NA
MANIFOLD SIZE:	N/A
DOSING VOLUME:	ON DEMAND
PUMP TANK DRAW DOWN*:	NA
SEPTIC TANK SIZE:	1500
PUMP TANK SIZE:	1500

**Pump tank draw down based on a volume basis of 31 gallons per inch. Draw down may vary among pump tank manufacturers.*

LOT C SHEARERS ROAD

Project #:

LAYOUT FOR 4 BEDROOM HOME

March 7, 2006

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		1.5			100.00		
INSTR. 1			101.50				
HOUSE CNR				11.00	90.50		
P. TANK				12.30	89.20		
1	BLUE			2.10	99.40	90	90
2	RED			2.90	98.60	90	90
3	ORANGE			3.40	98.10	90	90
4	***BLUE***			***14.10***	***87.40***	***47***	***45***
5	***RED***			***16.20***	***85.30***	***49***	***45***
6	***PINK***			***17.30***	***84.20***	***93***	***90***
7	***BLUE***			***18.40***	***83.10***	***93***	***90***
					Total	552	540

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***270***	***0.3***	***MOD.***	***0.30***	***PPBPS***	***GRAVITY***
Repair	270	0.3	MOD.	0.30	PPBPS	LOW PRESSURE

Notes:

** TBM located top of ground at EIP at corner of lot [redacted] (see site plan)

**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

LOT C SHEARERS ROAD

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
4	*BLUE*	87.4	*45*	NA	NA	135	10
5	*RED*	85.3	*45*	NA	NA	135	11
6	*PINK*	84.2	*90*	NA	NA	270	21
7	*BLUE*	83.1	*90*	NA	NA	270	21

total	feet =	270	gal/min =	NA
		Des. Flow	480	
		Pump Run=	NA	
		soil LTAR	0.3	
		LTAR +5%	0.315	
		LTAR with mod.	0.27	
		LTAR with mod.. + 5%	0.2835	

.156 equals 5/32 inch hole

WHAT IS THIS?

WHY LTAR ADJUSTMENT?

CENTERFED TO KEEP LENGTH < 70'

L1 90-45 45

L2 90-45 45

L3 90-45 45

PANELS = 10.38 / 45' LINE

10 PANELS / LINE × 6 = 60 PANELS

5/32" TAP @ 2FT. HEAD = 0.41 gpm

0.41 gpm × 60 = 24.6 gpm

60 PANELS × 3.6 gal/panel = 216 gal dose vol.

216 gal / 24.6 gpm = 8.8 MIN dose time

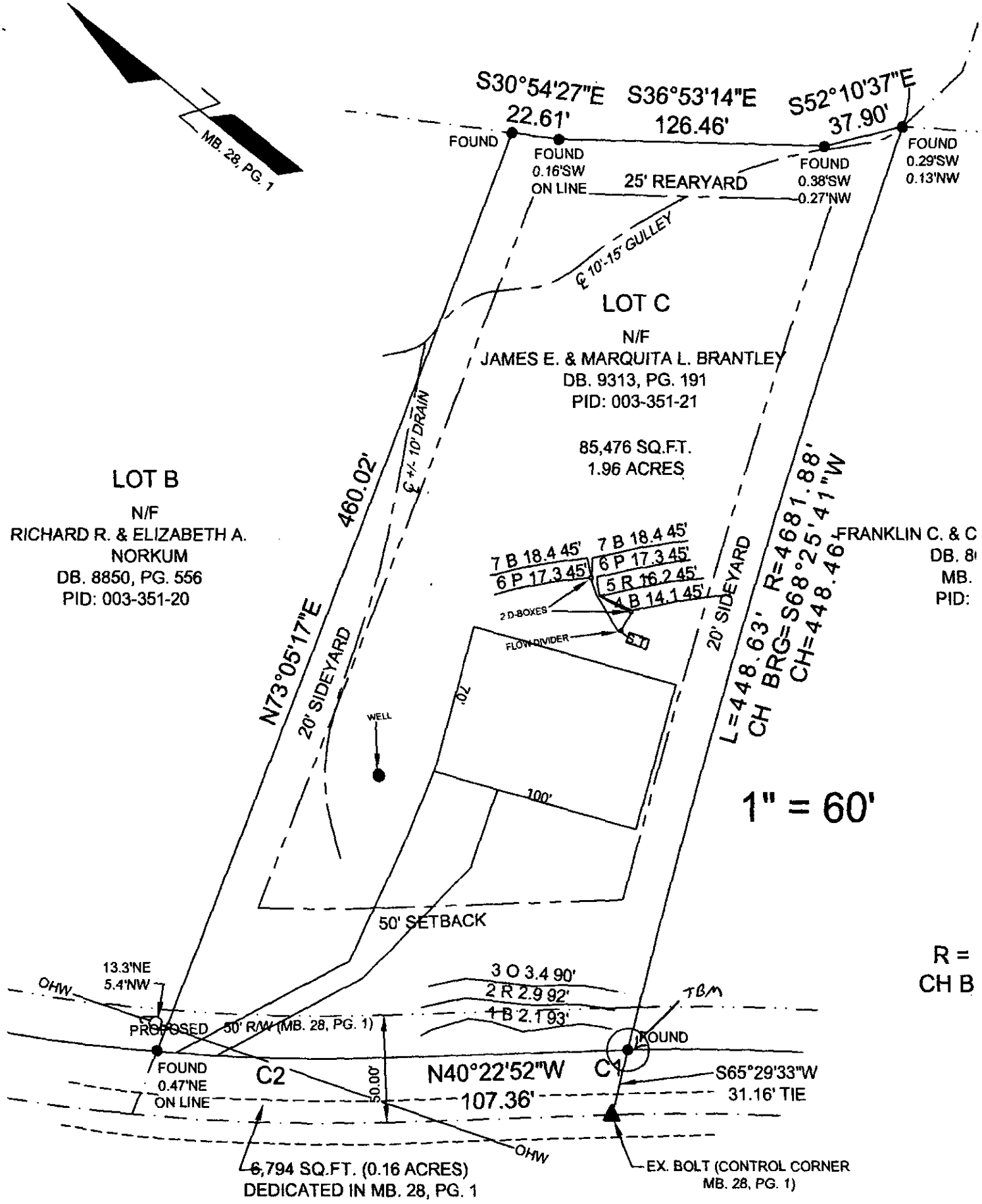
216 gal / 21 gal/in = 10.3" drawdown

LOT C SHEARERS ROAD
REPAIR

Line #	Color	Elev	Length	Hole Size	Flow/Panel	Trench Area	# of Panels
1	BLUE	99.4	90	0.0156	0.41	270	21.00
2	RED	98.6	90	0.0156	0.41	270	21.00
3	ORANGE	98.1	90	0.0156	0.41	270	21.00
	total	feet =	270	gal/min =	25.83		
			Des. Flow	480			
			Pump Run=	5.8			
			LTAR	0.3			

DOSE VOLUME = 3.6 gal X 63 PANELS = 226.8 GAL.

226.8 GAL. / 25.83 GPM = 8.8 MIN



SHEARERS ROAD S.R. 2418

60' PUBLIC R/W

CALCULATIONS

Location SHEARERS ROAD

Project Number

Lot No: LOT C

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length	5	ft.
Supply Line Volume	0.87	gal.
Required Feet of Line	266.6666667	ft.
Amount of Line from Layout	270	ft.
Gallons per Minute	NA	$^{gal}/_{min}$
	Note:	*Flow/hole (.41gpm) x # of panels (66)*
Required Septic Tank Capacity	1500	gal.
Minimum Standard Tank Size	1500	
Panel Volume	3.6	gal.
# of Panels	63	
Dosing Volume	ON DEMAND	gal.
	Note:	*Dosing Volume based on 33% of # of panels times 3.6 gal/panel*
Tank Draw Down	NA	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	NA	minutes
Elevation Head	NA	ft.
Pressure Head	NA	ft.
Friction Factor	NA	ft./100 ft. *(From the interpolater.)*
Friction Head	NA	ft.
Total Dynamic Head (+15%)	NA	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

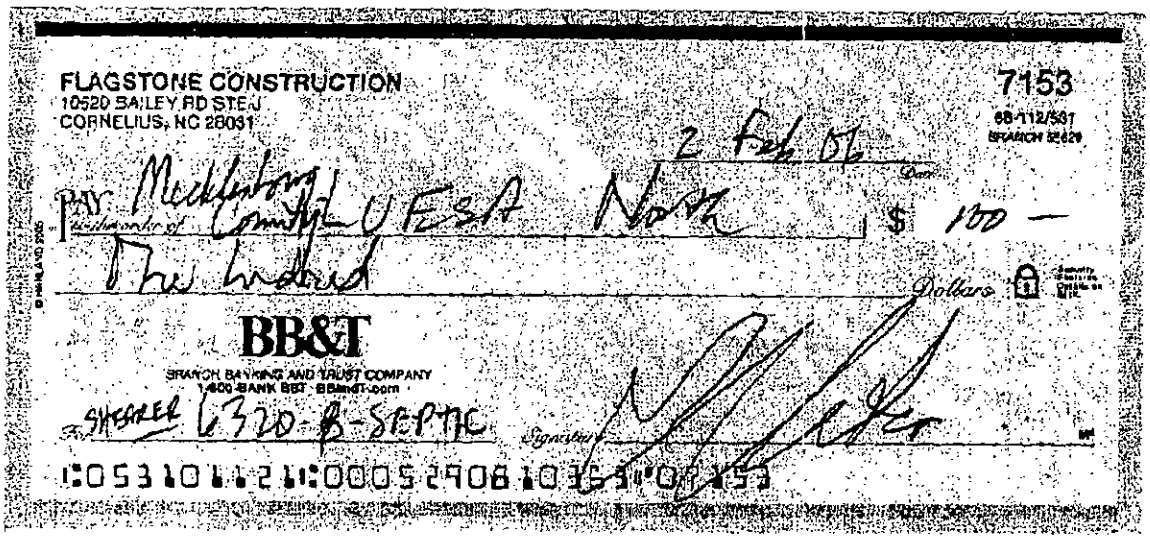
Receipt Information

Date:	02/02/06	**Amount:**	100.00
Receipt #:	40820	**Tendered:**	100.00
Check / Auth #:	CHECK 7153	**Returned:**	0.00
Received By:	DAUGHVB		

Account Information

Account #: 200000
Contractor: FLAGSTONE CONSTR
Attn:
Address: 10620 BAILEY RD-J
Address:
City/State/Zip: CORNELIUS, NC 28031

Item	Description	Permit#	Quantity	Unit Price	Total Price
0702	Optional Site Evaluations FILT # 6320 B		1	100.00	100.00



Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
3.00					