

MICHAEL ATHANAS & ASSOCIATES
NORTH CAROLINA LISCENSED SOIL SCIENTEST
1999 CANDLEWICK DRIVE
FORT MILL, SOUTH CAROLINA 29715

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Attached is an onsite wastewater septic design for a 4 bedroom residential home on lot 384 The Point Subdivision in Iredell County, NC.

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Design Information

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March 25, 2010

POINT 384
APPLICANT AND DESIGN SPECIFICATIONS

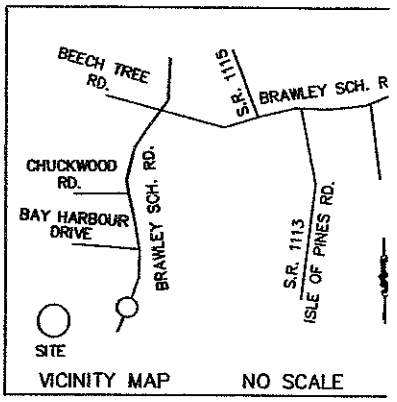
Applicant:	**William Allen**
Phone:	**704-634-2310**
Address:	**111-B Raceway Dr.** **Mooresville, NC 28117**
County:	Iredell
Location:	THE POINT LOT 384
Application for:	4 Bedroom Single Family Residence
Gallons per day:	480
Linear feet:	400
Loading Rate (gpd/ft.2):	0.3
Trench Depth:	36"
Trench Width:	36"
Septic Tank Size:	1000
Pump Tank Size:	N/A
Estimated Supply line Length/ft:	10'
Supply Line Diameter:	3"
Dosing volume:	N/A
Lateral line volume:	N/A
Supply Manifold:	N/A
Manifold Length:	N/A
Pressure Head:	N/A
Friction Head:	N/A
Elevation Head:	N/A
Friction factor:	N/A
TDH:	N/A
Pump Run:	N/A
Threaded Union:	IN TANK
Gate Valves:	IN TANK
Check Valves:	IN TANK
Anti-Siphon Hole:	N/A
Design flow:	ON DEMAND
Trench Bottom FT/SQ:	**1200**
Number of fields	**1**
Supply line length	**10'**
Draw down:	**N/A**
Comments:	Soil suitability was performed by Michael Athanas & Associates.

*Pump tank draw down based on 21 gallons per inch. Draw down may vary depending on tank manufacturers.

POINT LOT 384

SYSTEM TYPE	**25% REDUCTION**
SYSTEM LTAR	**0.3 GPD/FTSQ**
SYSTEM LINE LENGTH	**400**
REPAIR TYPE	*LP PPBPS*
REPAIR LTAR	*0.25 GPD/FTSQ*
REPAIR LINE LENGTH	*320*

LINE #	FLAG COLOR	SHOT ELEVATION	LINE LENGTH
1	***PINK***	***N/A***	***90***
2	***PINK***	***N/A***	***80***
3	***BLUE***	***N/A***	***85***
4	***BLUE***	***N/A***	***90***
5	***ORANGE***	***N/A***	***55***
6	ORANGE	N/A	90
7	PINK	N/A	130
8	BLUE	N/A	100
		Total	**720**
TBM		***N/A***	
HOUSE CORNER		***N/A***	
TANK		***N/A***	



LOT 379
BERNARD EDWARDS, JR.
STEPHANIE EDWARDS
1755/2052

LOT 380
TED B. LAPORTE
SHELLEY R. LAPORTE
1638/2077

LOT 388-409A
SEPTIC FIELD EASEMENT
POINT OWNERS ASSOCIATION, INC
1232/2022

LOT 384
0.95 AC.

LOT 385
DEAN A. ROSSI
SHERI ROSSI
2029/309

LOT 383
WILLIAM G. SMITH
JENNIFER P. SMITH
1795/1744

MADDAKET LOOP
(50' PUBLIC R/W)

#4 REBAR FOUND
S35°26'16"E
122.55
#4 REBAR FOUND
S35°26'16"E
163.26
COMPUTED POINT
#4 REBAR FOUND
DROP INLET
S76°17'36"E
8.52
Auger Boring #7 gm
Unsuit. @ 40"
Unsuit. @ 38"
20' SIDE SETBACK
8 B 100'
7 P 130'
6 O 90'
4 B 90'
2 P 80'
50' REAR SETBACK
34.0
POOL AREA
12.0
15.0' PUBLIC STORM DRAINAGE EASEMENT
(BASE BEARING)
N14°29'18"E
286.98
5.0 55'
3 B 85'
1 P 90'
STP
PROPOSED HOUSE BOX
60.0
80.0
20' SIDE SETBACK
S54°08'29"W
179.28
50' FRONT SETBACK
DRIVE
L=120.52'
R=175.00
(CHORD BEARING)
S86°44'31"W
118.15
#4 REBAR FOUND
#4 REBAR FOUND
CATCH BASIN
(TIE ONLY)
N39°58'28"W
138.24
PK NAIL SET IN THE INTERSECTION OF MARSTONS MILL DRIVE AND MADDAKET LOOP
PB. 35 PG. 137

Approved ICHD
4-4-11 gm

NOTES
1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) UNDERGROUND POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

0' 30' 60' 100'
SCALE IN FEET

BOUNDARY SURVEY

OF
108 MADDAKET LOOP
LOT 384 THE POINT, PH. 4, MAP 1
DAVIDSON TWSP., IREDELL CO., N.C.

SCALE 1" = 60'

ACQUIRED BY:

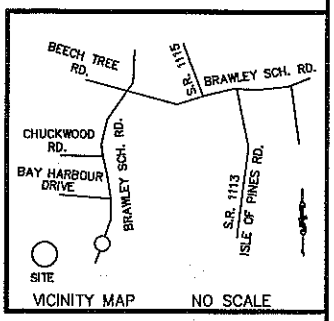
LEGEND
□ = DUKE POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
Ⓦ = WELL

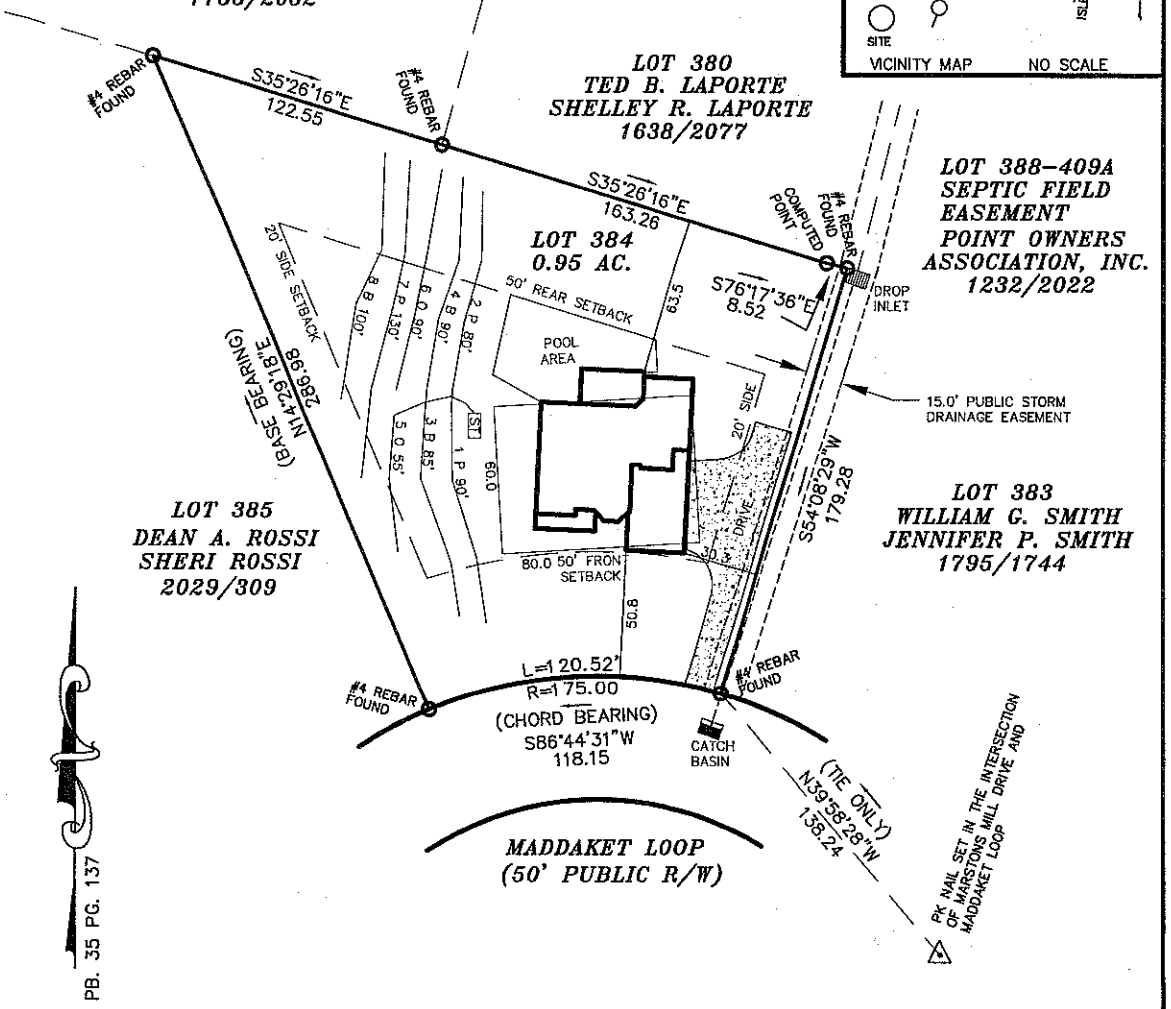
FIELD BOOK: 663
FILE: POINT LOT 384
DC FILE:
TAX MAP NO: 4635902451

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"Since 1971"
Commercial * Residential * Mortgage Surveys * Multi-Family
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(704) 664-7029 (704) 664-8041 Fax

I, certify that this map was drawn under my supervision from an actual survey made under my supervision recorded in deed book 2100, page 2236, and/or plat book 35, page 137, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Carolina Chapter 89C. my hand and seal on the 28, day of JULY, A.D. 20 14.

WILLIAM M. ALLEN, PLS





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3) UNDERGROUND POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

0' 30' 60' 100'
SCALE IN FEET

PLOT PLAN SURVEY

OF
108 MADDAKET LOOP
LOT 384 THE POINT, PH. 4, MAP 1
DAVIDSON TWSP., IREDELL CO., N.C.

SCALE 1" = 60'
ACQUIRED BY: JOE DiMOLA

LEGEND
□ = DUKE POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
Ⓦ = WELL

FIELD BOOK: 663
FILE: POINT LOT 384
DC FILE:
TAX MAP NO: 4635892451

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

Sheet ____ *of* ____
PROPERTY ID #: _____
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: WILLIAM ALLEN _____ APPLICATION DATE 3/2011
ADDRESS: 111B RACEWAY DRIVE MOORESVILLE _____ DATE EVALUATED: 3/2011
PROPOSED FACILITY: RES _____ PROPOSED DESIGN FLOW (.1949): 480GPD PROPERTY SIZE: .95AC
LOCATION OF SITE: THE POINT LOT 384 _____ PROPERTY RECORDED: YES
WATER SUPPLY: ☐ Private X Public ☐ 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				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
B 1	LINEAR 3%	0-8	BSCL GR	FRI,SS,SP,SEXP	2 CHROMAS AT 38"	48"	N/A	N/A	.25GPD/FT^2 TO 38"
		8-48	RC ABK	FRI,SS,SP,SEXP					
B 2	LINEAR 8%	0-6	BSCL GR	FRI,SS,SP,SEXP	N/A	48"	N/A	N/A	.3GPD/FT^2
		6-30	RC MFSBK	FRI,SS,SP,SEXP					
		30-48	RCL WFSBK	FRI,SS,SP,SEXP					
3	LINEAR 5%	0-6	BSCL GR	FRI,SS,SP,SEXP	2 CHROMAS AT 40"	40"	N/A	N/A	.25GPD/FT^2 TO 40"
		6-34	RC MFSBK	FRI,SS,SP,SEXP					
		34-40	RC MFABK	FRI,SS,P,SEXP					
4	LINEAR 8%	0-6	BSCL GR	FRI,SS,SP,SEXP	N/A	48"	N/A	N/A	.3GPD/FT^2
		6-24	RC MFSBK	FRI,SS,SP,SEXP					
		24-48	RCL WFSBK	FRI,SS,SP,SEXP					
				MANY SAP INCL.					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25% RED.	LP PPBPS
Site LTAR	.3 GPD/FT^2	.25 GPD/FT^2

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____

EVALUATED BY: MICHAEL ATHANAS & ASSOCIATES
OTHER(S) PRESENT: _____

Approved ICHD
4-4-11 gm

COMMENTS: _____ **SHALLOW REPAIR** _____

SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet ____ of ____

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: _____
DATE OF EVALUATION: _____
COUNTY: _____

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 5	LINEAR 8%	0-5	BSCL GR	FRI,SS,SP,SEXP	N/A		N/A	N/A	.3GPD/FT^2
		5-40	RC MFSBK	FRI,SS,SP,SEXP					
		40-48	RC MFSBK	FRI,SS,SP,SEXP					
B 6	LINEAR 8%	0-4	BSCL GR	FRI,SS,SP,SEXP	N/A		N/A	N/A	.3GPD/FT^2
		4-30	RC MFSBK	FRI,SS,SP,SEXP					
		30-48	RC MFSBK	FRI,SS,SP,SEXP					
B 7	Linear 5%	0-5	wf scl	fr sexp	N/A	auger refusal @ 42" rock fragment			.3 to 42" gm
		5-36	mf sbk C	fr sexp					
		36-42	wf sbk cl	fr sexp					

COMMENTS: Approved ICHD 4-4-11 gm