

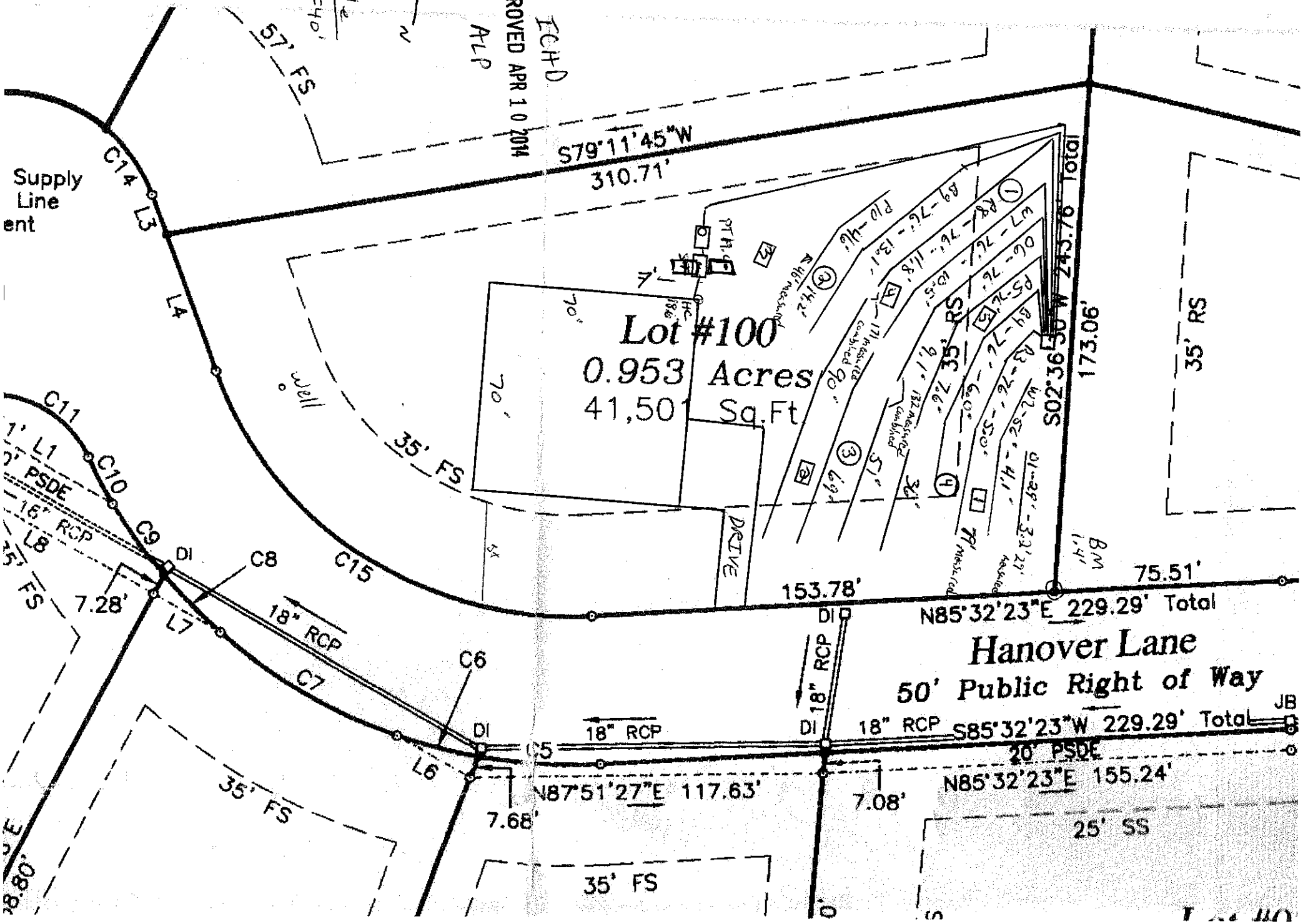
MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
803-802-4402 (fax)

Reference: Data Sheet for Anniston SD, Lot 100
House Footprint: 70' x 70'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.225 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Pressure manifold
Flow per Tap: 5.48 GPM
Tap Size and Material: ½" SCH 80
System Flow: 38.4 GPM
Dosing Volume: 232.8 gallons
Pump Run Time: 6.1 minutes
Elevation Head: 19'
Friction Head: 6.9'
Pressure Head: 2'
Total Dynamic Head: 27.9'
Supply Line Length: 220'
Septic/Pump Tank Size: 1000/1000
Proposed Trench Bottom: 24-36"

Line	Design Length	Actual Length	Elevation
Orange 1		29'	3.2'
White 2		56'	4.1'
Red 3	**76'**	**79'**	**5.0'**
Blue 4	**76'**	**95'**	**6.0'**
Pink 5	**76'/36'**	**117'**	**7.6'**
Orange 6	**76'/51'**	**132'**	**9.1'**
White 7	**76'/69'**	**150'**	**10.5**
Red 8	**76'/90'**	**171'**	**11.8'**
Blue 9	**76'**	**76'**	**13.1'**
Pink 10		46	14.2'

Initial System: 532' **Repair System:** 377'
Pump Tank: 19.0' **House Corner:** 18.6' **Benchmark:** 1.4'

Comments:
This lot was originally permitted in 2007. Michael Athanas & Associtates reevaluated the lot to adjust the house location and the system type.


Scale 1"=40'
N
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ECHD
ALP
57' FS
S79°11'45"W
310.71'
Supply Line ent
C14
L3
L4
C11
C10
C9
C8
C15
C7
C6
C5
L1
L6
L7
L8
PSDE
16" RCP
18" RCP
DI
7.28'
7.68'
35' FS
Lot #100
0.953 Acres
41,501 Sq.Ft
70'
Well
PT
HC
DRIVE
5'
S02°36'30"W 243.76' Total
173.06'
35' RS
153.78'
75.51'
N85°32'23"E 229.29' Total
Hanover Lane
50' Public Right of Way
S85°32'23"W 229.29' Total
JB
20' PSDE
N85°32'23"E 155.24'
7.08'
N87°51'27"E 117.63'
25' SS
35' FS
BM 1.41'

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

Sheet 1 *of* 2
PROPERTY ID #: 4664688786
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Shea Homes
APPLICATION DATE: 3-26-14
ADDRESS: 8008 Corporate Cntr Dr, STE 300, Charlotte, NC 28226
DATE EVALUATED:
PROPOSED FACILITY: 4 bdrm
PROPOSED DESIGN FLOW (.1949): 480 GPF
PROPERTY SIZE: 0.953 AC
LOCATION OF SITE: Anniston Lot 100
PROPERTY RECORDED: 1/30/2007
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
AB 1	LS 12%	0-36	R C SBK	FR SS SP	N/A	48"	Few SAP	N/A	PS 0.3
		36-48	R CL WSBK	FR SS SP			Com SAP		
AB 2	LS 8%	0-16	RBr C SBK	FR SS SP	N/A	48"	Few SAP 40"	N/A	PS 0.25-0.3
		16-48	Br R C ABK	FR SS SP					
AB 3	ã	0-48	Dk R C ABK	FI SS SP	Few YBs	48"	N/A	N/A	PS 0.25
AB 4	LS 8%	0-48	R C SBK/WSBK	FI SS SP	Few YBs	48"	N/A	N/A	PS 0.25

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1440 FT2	640 FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.25	0.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: M A & Associates
OTHER(S) PRESENT:

COMMENTS: Mike agreed to lower app. rate to 0.225 after I evaluated pits and thought app. should be lower.

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SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4664688786
DATE OF EVALUATION:
COUNTY: Iredell

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
P 1	LS 8%	0-48	R C ABK	FR SS SP	Few YBs @ 30-42"	48"	N/A	N/A	PS 0.25
P 2	LS 8%	0-27	R C ABK	FR SS SP	Few YBs/Relic	50"	N/A	N/A	PS 0.25
		27-50	R C/CL ABK	FR SS SP					
P 3	LS 8%	0-30	R C ABK/SBK	FR SS SP	N/A	52'	N/A	N/A	PS 0.25-0.275
		30-52	R C ABK	FR SS SP					
P 4	LS 12%	0-4	RBr CL WSBK	FR SS SP	Few YBs	50"	N/A	N/A	PS 0.25
		4-50	R C ABK	FR SS SP					
P 5	LS 15%	0-4	RBr CL WSBK	FR SS SP	N/A	53'	N/A	N/A	PS 0.25-0.275
		4-53	R C ABK	FR SS SP					

COMMENTS:

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