DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 3
PROPERTY ID #: 9001.
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Bo Butler
APPLICATION DATE
ADDRESS: 147 Canterbury Pine Rd Mooresville NC
DATE EVALUATED: 5/19/15
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 360 GPD
PROPERTY SIZE: .89 ACRE
LOCATION OF SITE: 187 Canterbury Pine Rd Mooresville NC
PROPERTY RECORDED:
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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
A1	LL 8%	0-15	BSCL, WSBK	VFR, SS, SP		48"	C-M SAP INCL 30"-46"	N/A	.325 BELOW 26" .3
		15-26	RC, SBK	FR, SS, SP					
		26-48	RCL, SBK/WSBK	FR, SS, SP					
A2	LL 10%	0-16	BSCL, WSBK	VFR, SS, SP		48"	F-SAP INCL 40"-48"	N/A	.3
		16-33	RC, SBK/ABK	FR, SS, SP					
		33-48	RCL, SBK	FR, SS, SP					
A3	LL 15%	0-16	BSCL, WSBK	VFR, SS, SP	N/A	48"	N/A FEW MANG. INCL. 30-48"	N/A	.275
		16-48	RC, SBK/WSBK	FR, SS, SP					
A4	LL 12%	0-12	BSCL, WSBK	VFR, SS, SP	N/A	48"	N/A FEW MANG. INCL. 36"-48"	N/A	.275
		12-48	RC, SBK	FR, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	APPROVED	APPROVED
Site LTAR	.3	.275

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Shane Cashion
OTHER(S) PRESENT: Bo Butler

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

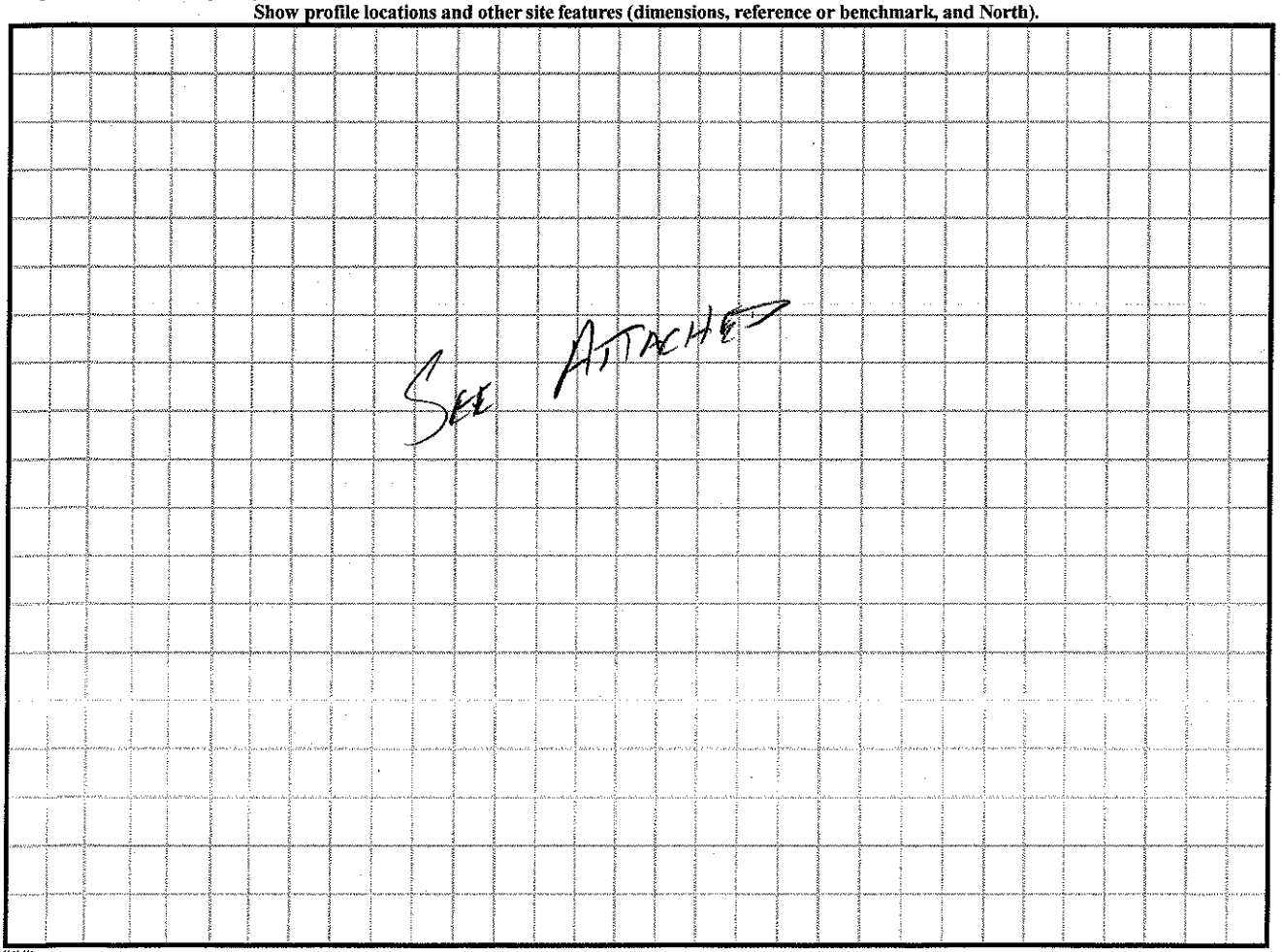
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (######)
Review (#####)

PAGE 2: *SITE PLAN WORKSHEET*

PLAN" BELOW. INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!

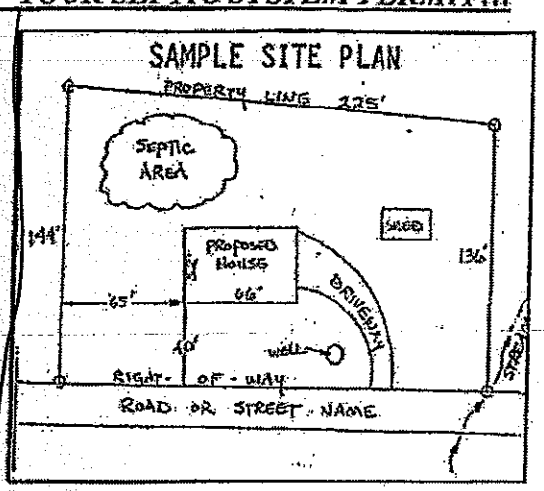
s you complete the site plan:

urements are clearly identified
res are indicated
cks from property line
ocation and well location
septic system to be placed
r sufficient indicator of direction

ppropriate:

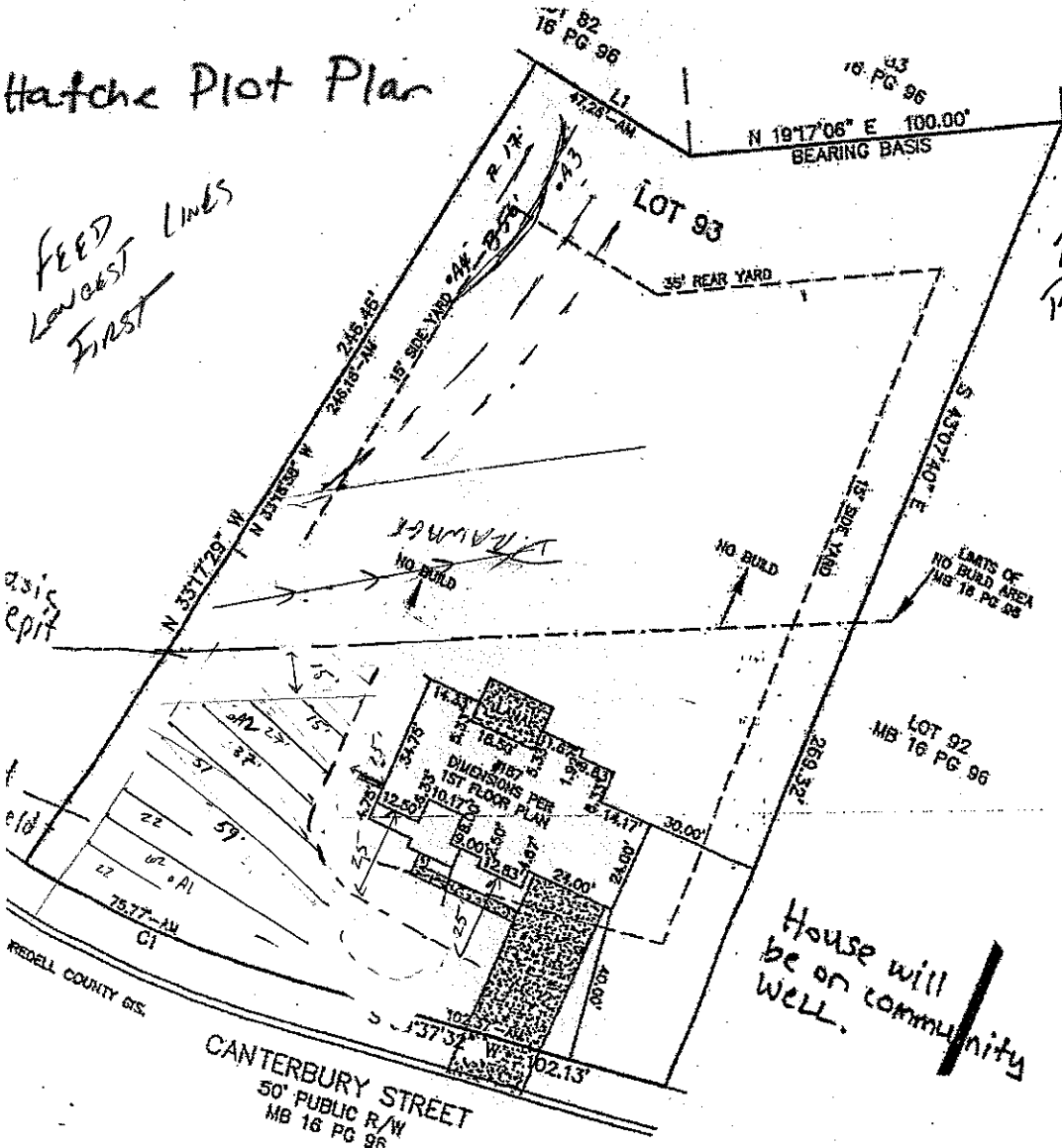
and wells within 100' of your property N/A
l rights of ways on your property N/A
d wetlands on the property N/A

INITIAL



USE THIS SPACE TO DRAW YOUR SITE PLAN

footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site



286' PANEL

182.81 DOSE = 5.11 RUN TIME 3/3
35.78

REPAIR LOPPERS
B 17'
R 56'
B 101'
R 91'
265'
+16

W 22'
B 64' 62'
W 81' 22'
59
R 57'
51'
B 50'
R 37'
W 34' B 28'
R 26' DB 15
296'

SHIFT HOUSE TO RIGHT 5'

BO. BUTLER & ANDREW ROBY. com

T. Butler

r's legal representative signature (SIGNATURE REQUIRED)

4/8/15

DATE

3 BR CHAMBER PM

PRESSURE MANIFOLD UNEQUAL DISTRIBUTION RATIOS			
1/2" SCH 80 @ 5.48	1/2" SCH 40 @ 7.11	3/4" SCH 80 @ 10.1	3/4" SCH 40 @ 12.5
100	130	185	229
96	125	178	220
92	120	170	211
89	115	163	202
85	110	156	194
81	105	149	185
77	100	142	176
73	95	135	167
69	90	128	158
65	85	121	150
62	80	114	141
58	75	107	132
54	70	99	123
50	65	92	114
46	60	85	106
42	55	78	97
39	50	71	88
35	45	64	79
31	40	57	70
27	35	50	62
23	30	43	53
19	25	36	44
15	20	28	35
12	15	21	26
8	10	14	18
4	5	7	9
3	4	6	7
2	3	4	5