DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL HEALTH

ON-SITE WASTEWATER SECTION

SHEET: 1 of 2

PERMIT #:

PROPERTY ID #:

COUNTY: Iredell

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNER/APPLICANT: Johnathan Hedrick

ADDRESS:

APPLICATION DATE:

PROPOSED FACILITY: 3BR SFD

PROPOSED DESIGN FLOW (.1949): 360 GPD

DATE EVALUATED:

LOCATION OF SITE: Lot #31 Carters Fame S/D

PROPERTY SIZE: 0.75± Ac.

PROPERTY RECORDED:

WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other

EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut

TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LSCP PSTN/ SLOPE %	HORIZ 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
1	FS/L	0-14	1, M, Gr, SCL	VFr, NP/SP, SEXP					PS
		14-19	1, M, Gr, SCL	(W/ Common Brwn/Black Mn Mottles)	7.5YR4/	>48"	N/A	N/A	
		19-30	1, M, Gr, SCL	Fr, SP, SEXP					0.225
		30-48	1, M, SBk, SC	Fr, SP, SEXP	(Few Red, Org, Brwn Mottles @ 30" 3/4)				
2	FS/L	0-6	Suspect FILL	(1, M, Gr, SC)					PS
		6-48	1, M, Gr, SCL	VFr/Fr, SP, SEXP	(Few - Common Brwn Mn Mottles 7.5YR4/1)	>48"	N/A	N/A	0.30
					(Few Red, Org, Brwn @ 36"+)				
3	L/FS	0-20	2/1, M, SBk, C	Fr, SP/MP, SEXP	(Few Yellow Mtls @ 14" 2.5Y6/6)				PS
		20-48	1, M, ABk, C	Fr, SP, SEXP	(Few Brwn Mottles @ 24")	>48"	N/A	N/A	0.225
					2.5Y7/6 @ 34" 10YR7/3				
4	L/S ~6%	0-6	1, M, Gr, SCL	Fr, SP, SEXP					PS
		6-22	2/1, M, SBk, C	Fr, SP/MP, SEXP	N/A	44"	N/A	N/A	
		22-30	1, M, SBk, C	Fr, SP, SEXP (W/ SAP Inclus.)					0.275
		30-44	1, M, SBk, CL	SAP MIX (<50% SAP)					
		44-48	SAP MIX (≥50% SAP)						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	~~II~~	~~III/IV~~
Site LTAR	0.225	0.275

OTHER FACTORS (.1946): PS

SITE CLASSIFICATION (.1948):

EVALUATED BY: P. Mitchell

OTHER(S) PRESENT:

COMMENTS:

* PG. 2 ON REAR

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4
CV (Convex Slope)		LS (Loamy Sand)		
D (Drainage Way)				
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3
FP (Flood Plain)		L (Loam)		
FS (Foot Slope)				
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15
L (Linear Slope)		SiCL (Silty Clay Loam)		
N (Nose Slope)		CL (Clay Loam)		
R (Ridge)		SCL (Sandy Clay Loam)		
S (Shoulder Slope)		SiL (Silt Loam)		
T (Terrace)				
	IV	C (Clay)	0.4 - 0.1	0.2 - 0.05
		SC (Sandy Clay)		
		SiC (Silty Clay)		
		O (Organic)	None	None

MINERALOGY/ CONSISTENCE
NEXP (Non-expansive)
SEXP (Slightly Expansive)
EXP (Expansive)

MOIST
VFR (Very Friable)
FR (Friable)
FI (Firm)
VFI (Very Firm)
EFI (Extremely Firm)

WET
NS (Non Sticky)
SS (Slightly Sticky)
MS (Mod. Sticky)
VS (Very Sticky)

NP (Non Plastic)
SP (Slightly Plastic)
MP (Mod. Plastic)
VP (Very Plastic)

STRUCTURE TYPE
G (Single Grain) [*Structureless*]
M (Massive) [*Structureless*]
CR (Crumb)
GR (Granular)
SBK (Subangular Blocky)
ABK (Angular Blocky)
PL (Platy)
PR (Prismatic)
COL (Columnar)
CMPD (Compound) [___ parting to ___]

STRUCTURE GRADE
0 (Strucutreless)
1 (Weak)
2 (Moderate)
3 (Strong)

STRUCTURE CLASS
VF (Very Fine)
F (Fine)
M (Medium)
C (Coarse)
VC (Very Coarse)

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

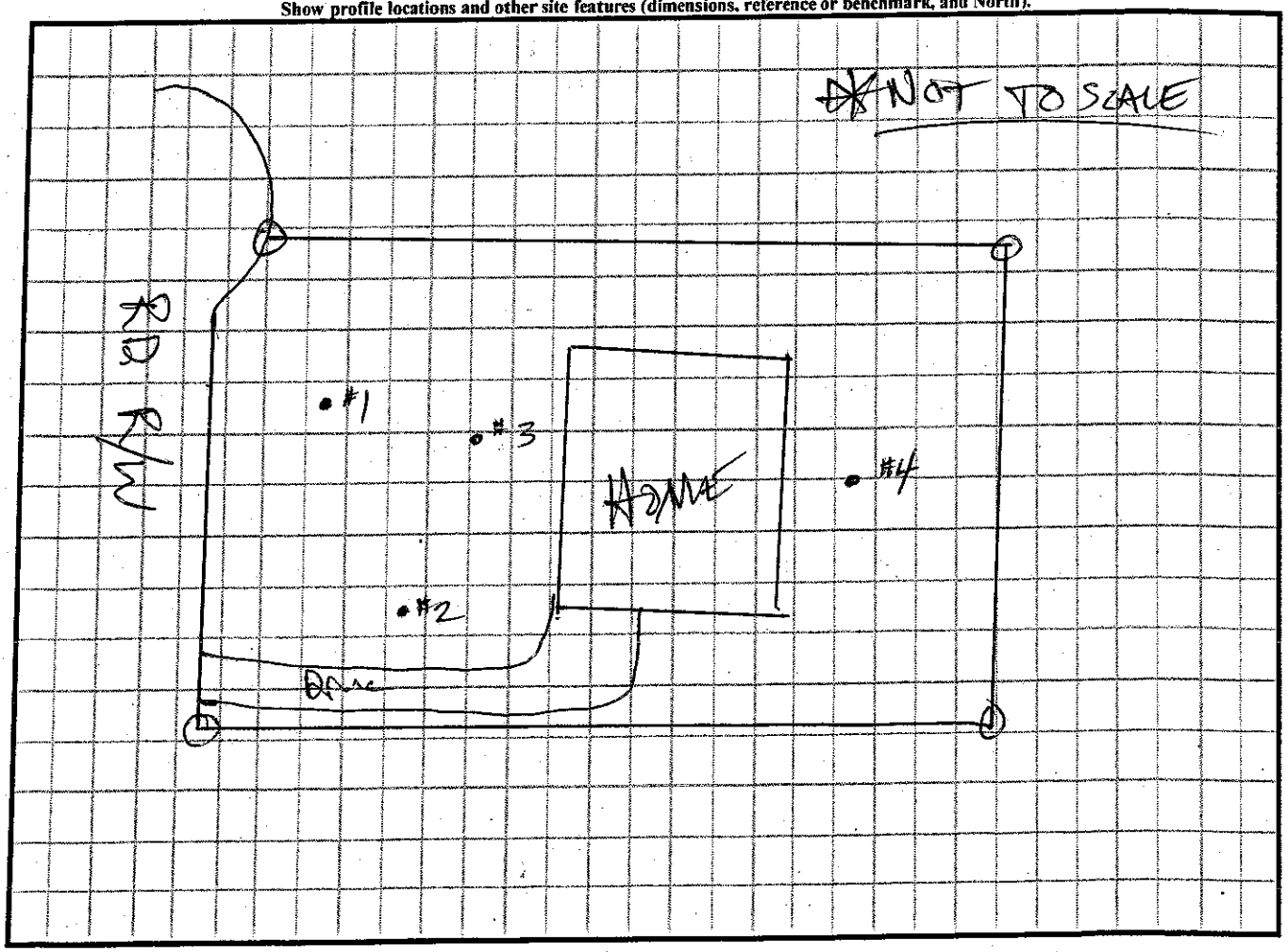
NOTES

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).



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

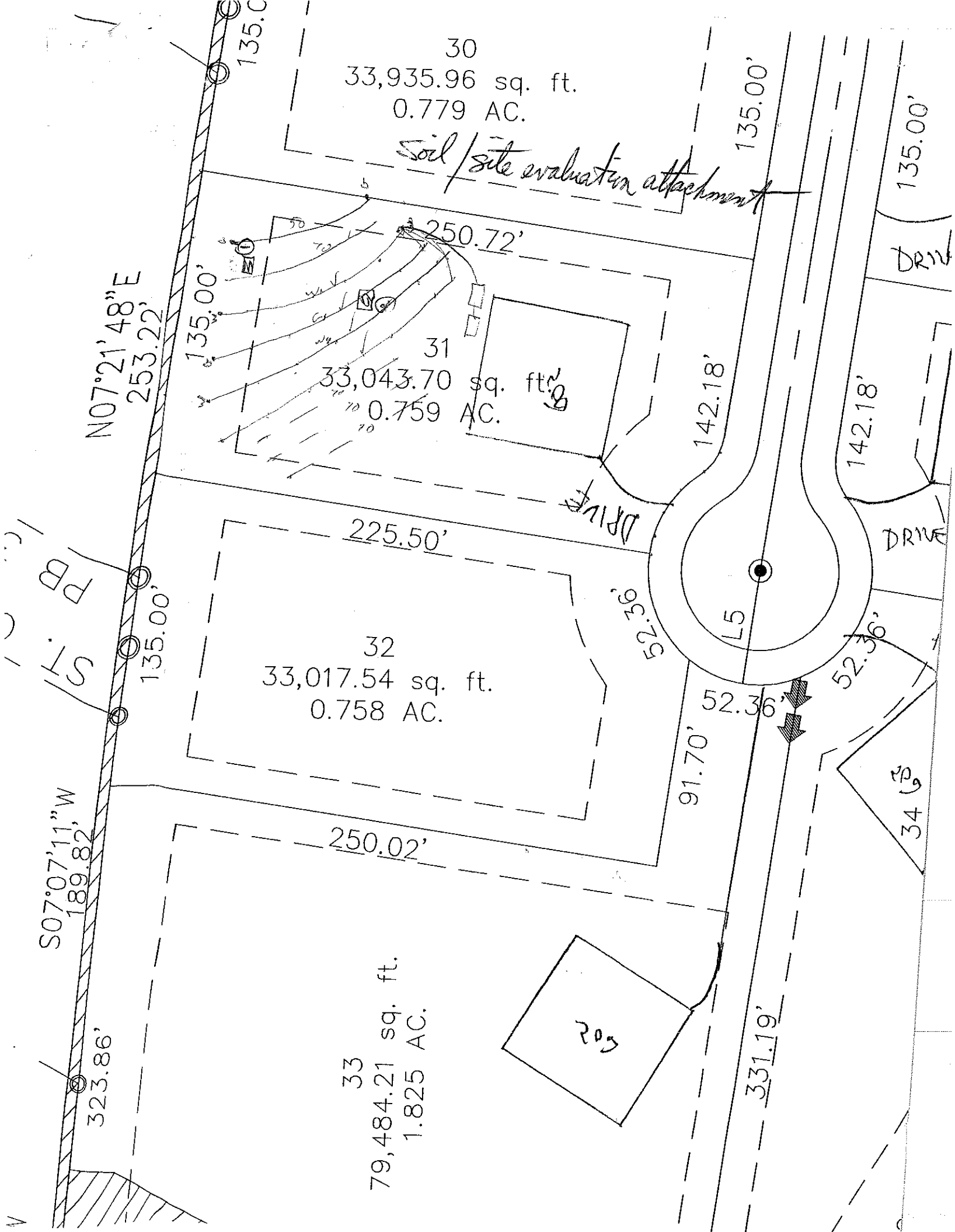
SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: lot 31 Carter Lake 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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1		0-26	LC MFSBK	fri SSSP sm					
		26-49	YRCL WFSBK	fri SSSP smp fw SP					
					North side of Pit Many SAP				5 -3
2		0-24	LC SBK	fri SSSP smp					
		24-60	YRSL MASBK	fri SSSP smp					5 -3
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____


30
33,935.96 sq. ft.
0.779 AC.
Soil/site evaluation attachment
135.00'
135.00'
250.72'
135.00'
N07°21'48"E
253.22'
31
33,043.70 sq. ft.
0.759 AC.
142.18'
142.18'
DRIVE
DRIVE
225.50'
135.00'
32
33,017.54 sq. ft.
0.758 AC.
52.36'
L5
52.36'
52.36'
91.70'
250.02'
S07°07'11"W
189.82'
323.86'
33
79,484.21 sq. ft.
1.825 AC.
331.19'