SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet _____

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

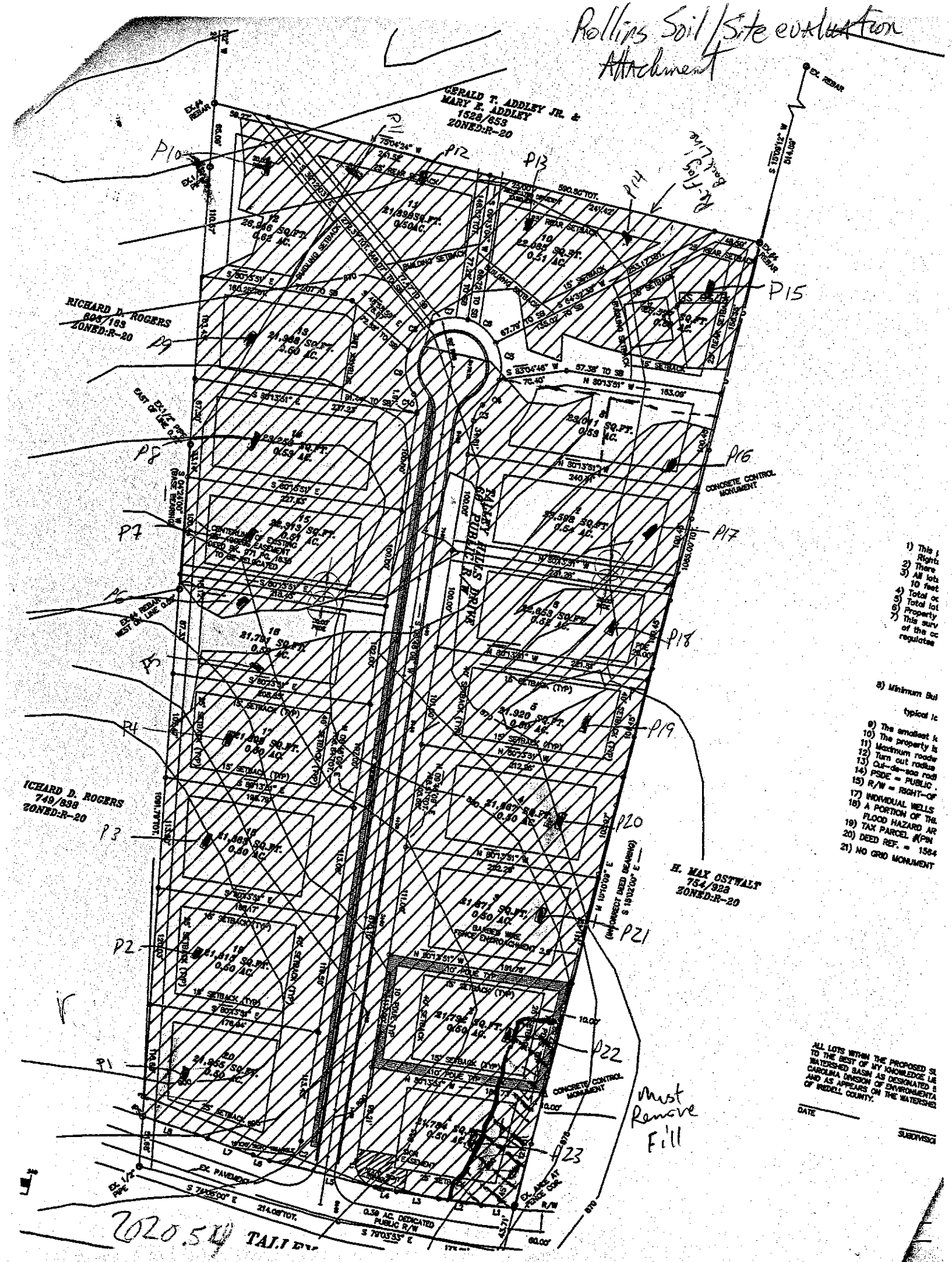
LOT #11

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

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
P 10	L/ 15-20	0-22	RC mgbk	Fr SS P SEXP	comm sap incl.	44"	PS	N/A	PS-60 0.3
		22-44	RB cl wsbk	Fr SS SP SEXP					
		44-60	vers. 41" sap	Fr SS SP SEXP					
P 11	L/ 6-10	0-5	BO sl gr	Fr SS SP SEXP	few sap incl.	48"	N/A	N/A	PS-48 0.3
		5-34	RB C mAbk/sbk	Fr SS P SEXP					
		34-48	RB cl wsbk	Fr SS SP SEXP					
P 12	R/ 0-5	0-5	B scl fwsbk	Fr SS SP SEXP	comm sap incl.	57"	N/A	N/A	PS-57 0.3
		5-31	RC msbk/Abk	Fr SS P SEXP					
		31-57	RCl wfsbk	Fr SS SP SEXP					
P 13	R/ 6-10	0-36	RC mAbk/sbk	F SS P SEXP	few - comm. YB mtls few sap incl. comm sap incl.	48"	N/A	N/A	PS-48 0.275
		36-48	RScl mwsbk/Abk	F SS SP SEXP					
P 14	L/ 6-10	0-8	B scl wfsbk	Fr SS SP SEXP	comm Sap & Rock incl	48"	N/A	N/A	PS-48 0.275
		8-38	RC msbk/Abk	Fr SS SEXP					
		38-48	BR C l+sap fwsbk	Fr SS SP SEXP					

COMMENTS: ASHLEY ROLLINS

Rollins Soil / Site evaluation
Attachment 4



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL HEALTH

ON-SITE WASTEWATER SECTION

SHEET: 1 of _____
PERMIT #: _____
PROPERTY ID #: _____
COUNTY: Iredell

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNER/APPLICANT: Mathews, Prof.
ADDRESS: _____
PROPOSED FACILITY: 3BR SFD PROPOSED DESIGN FLOW (.1949): 360 GPD
LOCATION OF SITE: LOT # 11 Talley Ridge S/D
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

APPLICATION DATE: _____
DATE EVALUATED: _____
PROPERTY SIZE: _____
PROPERTY RECORDED: _____

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	L/S	0-7	2/1, M, SBK, C	Fr, SP, SEXP	N/A	44"	N/A (Need Pits)	>48"	PS 0.30
		7-15	2/1, M, SBK, C w/ SAP Inclus.						
		15-44	C + SAP MIX	(<50% SAP) W/M/SBK structure					
		44-48	SAP MIX (≥50% SAP)	Massive, Fr					
2	S	0-15	2/1, M, SBK, C	Fr, SP, SEXP	N/A	48"	N/A	>48"	PS 0.30
		15-37	2/1, M, SBK, C w/ SAP Inclus.						
		37-48	1, M, SBK, CL + SAP MIX	Fr, SP					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR	0.30	0.30

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

COMMENTS:

(PAGE 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).

