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: Med Mw Prop
ADDRESS:
APPLICATION DATE:
DATE EVALUATED:
PROPOSED FACILITY: 3 BR SFD PROPOSED DESIGN FLOW (.1949): 360 GPD
LOCATION OF SITE: LOT 14 SW TAUEY RIDGE SD
PROPERTY SIZE: 0.5 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	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
1	4/5 ~7%	0-3	1, M, SbK, SCL	Fr, SP, SEXP	N/A	38"	N/A (Need Pits)	N/A	PS 0.30 ≤26" Max T. Depth
		3-18	2/1, F/M, ABK/SBK, C	Fr, SP, SEXP					
		18-27	" " " , C	Fr, SP, SEXP w/ SAP INCLUS.					
		27-38	1, M, SBK, CL & SAP MIX (<50% SAP)						
		38-48	SAP MIX (≥50% SAP)						
2	4/5	0-5	1, M, Gr, SCL	Fr, SP, SEXP	N/A	>48"	N/A	N/A	PS 0.30
		5-28	1, M/F, SBK, C	Fr, SP, SEXP					
		28-48	1, M, SBK, C	W/ SAP Inclus.					
3	4/5	0-3	1, F, Gr, SL	VFr, NP	N/A	38"	N/A (Need Pits)	N/A	PS 0.30 ≤26" max T. Depth
		3-14	3/2, M, ABK, C	Fr, SP, SEXP					
		14-25	2/1, M, ABK/SBK, C	Fr, SP, SEXP w/ SAP INCLUS.					
		25-38	1, M, SBK, C & SAP MIX (<50% SAP)						
		38-48	SAP MIX (≥50% SAP)						
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	~~III~~	~~III~~ / IV
Site LTAR	0.30	0.30

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

COMMENTS: * Max Trench Depth of 26" w/out Pit eval.

* 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.**

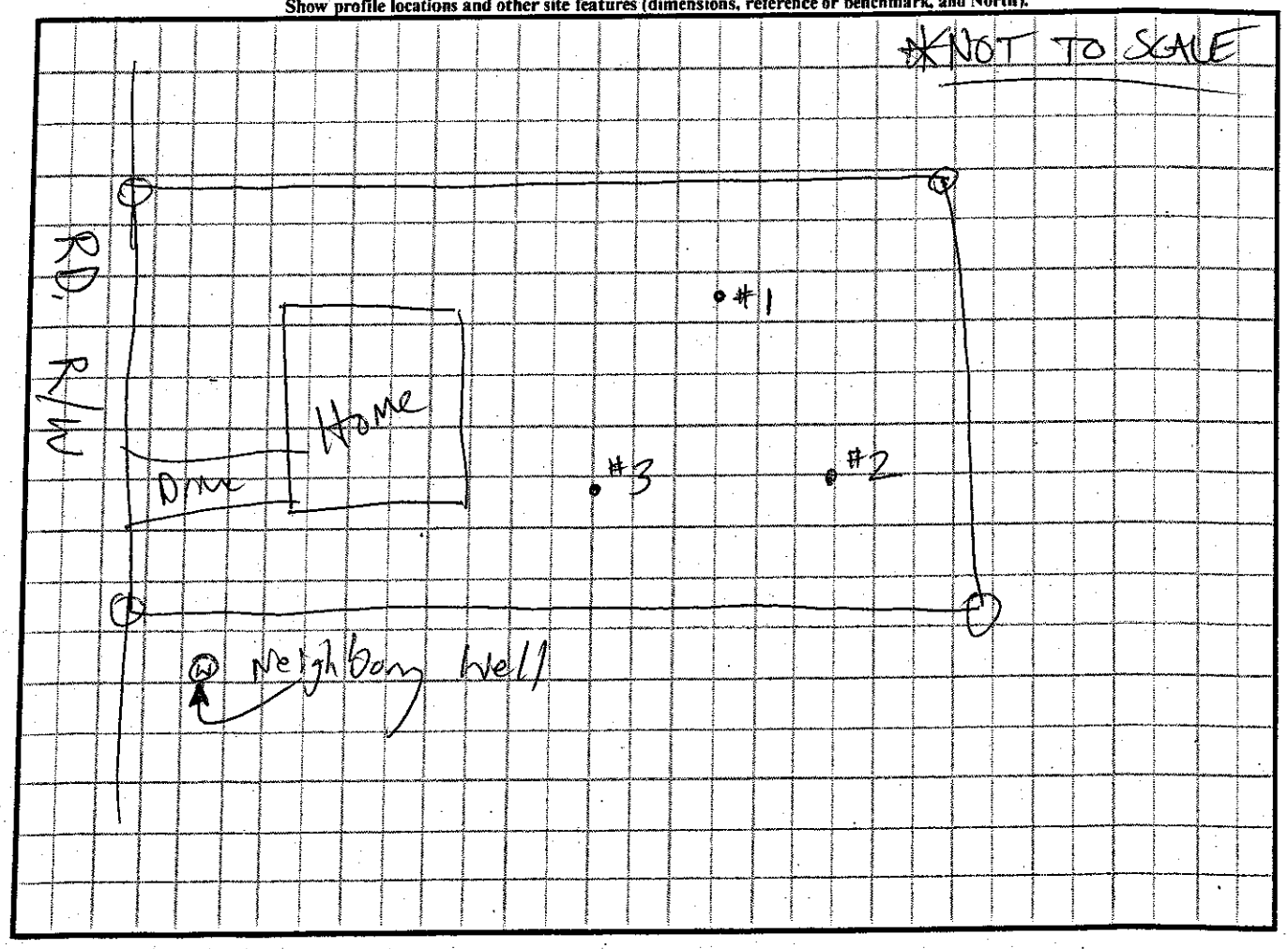
NOTES

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).



SOIL/SITE EVALUATION

(Continuation Sheet)

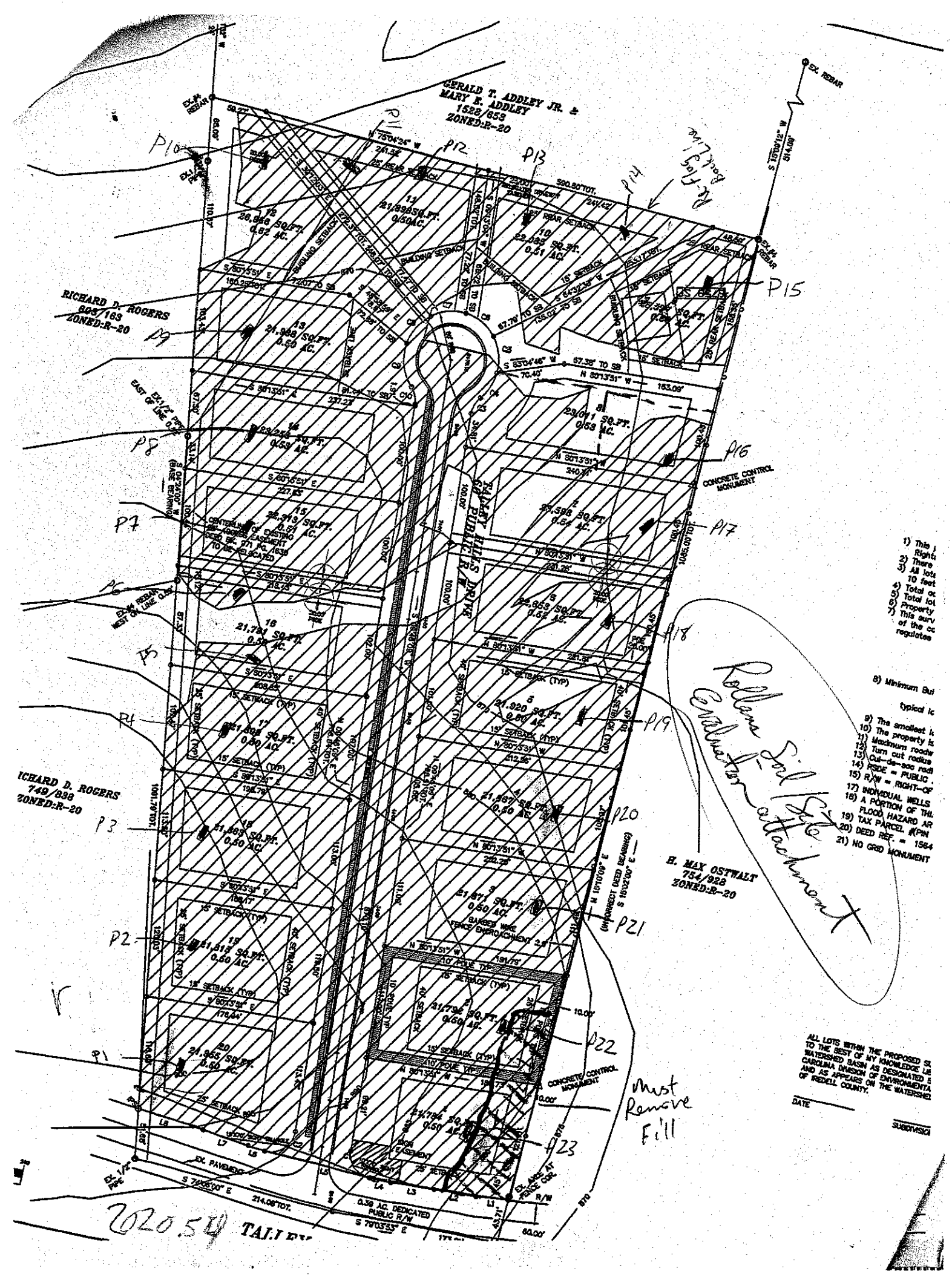
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DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

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

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	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
P5	H/0-6	0-20	B/R cl fwsbk	Fr SS SP SEXP	-deposition	52"	PS	N/A	PS-60 0.25
		20-30	Bsl-scl sr-wfsbk	Fr SS SP SEXP					
		30-52	R cl fwsbk	Fr S P SEXP	-vfw sap incl				
		52-64	BR "1" sap	Fr SS SP SEXP					
P6	L/0-15	0-20	R c mAbk/sbk	Fr SS P SEXP	-vfsap incl	47"	PS	N/A	PS-60 0.3
		20-47	RB cl fsbk/Abk	Fr SS SP SEXP	-few-comm sap incl				
		47-60	Vers. "1" sap	Fr SS SP SEXP					
P7	L/5-10	0-6	B sl wfsbk	Fr SS SP SEXP		50"	N/A	N/A	PS-50 0.3
		6-36	RB c mAbk/sbk	Fr SS P SEXP	-few carb. deposits				
		36-50	R cl fw sbk	Fr SS SP SEXP	-comm sap incl				
P8	L/6-12	0-24	R c fAbk	Fr S P SEXP	-comm YB motts (15-24") V pass Plow"	50"	N/A	N/A	PS-50 0.275
		24-50	R Sc fwsbk/Abk	Fr SS SP SEXP	-Comm sap incl.				
P9	L/0-5	0-27	BR C mAbk/sbk	Fr SS P SEXP		57"	N/A	N/A	PS-57 0.3
		27-57	R cl wfsbk	Fr SSS P SEXP	-comm sap incl				

COMMENTS: Ashley Rollins


GERALD T. ADDLEY JR. &
MARY B. ADDLEY
1528/853
ZONED:R-20
RICHARD D. ROGERS
605/163
ZONED:R-20
RICHARD D. ROGERS
749/838
ZONED:R-20
H. MAX OSTWALT
754/928
ZONED:R-20
CONCRETE CONTROL MONUMENT
CONCRETE CONTROL MONUMENT
EX. REBAR
EX. PAVEMENT
0.38 AC. DEDICATED PUBLIC R/W
Must Remove Fill
Williams Soil & Environmental Attachment
ALL LOTS WITHIN THE PROPOSED SU
TO THE BEST OF MY KNOWLEDGE LIE
WATERSHED BASIN AS DESIGNATED B
CAROLINA DIVISION OF ENVIRONMENTA
AND AS APPEARS ON THE WATERSHED
OF IREDELL COUNTY.
DATE
SUBDIVISIO
2020-54