DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet ___ of ___

PROPERTY ID #:

COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Kelli Midgett

ADDRESS:

APPLICATION DATE

DATE EVALUATED: 6-4-13

PROPOSED FACILITY: Duplex Apt PROPOSED DESIGN FLOW (.1949): 360

PROPERTY SIZE: ~ 1Ac

LOCATION OF SITE: 697 Shumville Rd. - Lot 1 Mobile

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	14% L	0-26	sbk c fr vsl sap	frssspsep	None obs	40"	probably PS 40"+	None obs	.3 @ ≤ 40"
		26-40	sbk cl common sap	frsssposep					
		40-48	massive LSap	frsssp					
2	10% L	0-24	sbk c	frssspsap	None obs	48"	NA	None obs	.3
		24-33	wk sbk cl common sap	frssspsap					
		33-48	wk sbk l common sap	frssssp					
3	8% L	0-23	wk fsbk red scl	frssspsap	None	48"	None obs	None obs	.25-.3
		23-39	sbk c	frssspsap	Fe/mn/gneiss stains, yb/br mottles				
		39-48	sbk cl	frssspsap	obs				
4	9% L	0-48	wk sbk cl	frssspsap	None obs	48"	None obs	None obs	.3

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS on 1856
System Type(s)	Gravity 25% Red	LPPPBPS
Site LTAR	.3	.3

OTHER FACTORS (.1946):

SITE CLASSIFICATION (.1948): PS

EVALUATED BY: D.G. Hewson

OTHER(S) PRESENT:

COMMENTS: Original application was for 4 bedrooms. This would have required the use of an LPPBPS or other 50% Reduction system in front yard. Owner decided to reduce to 3 bedrooms due to septic system cost.

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.

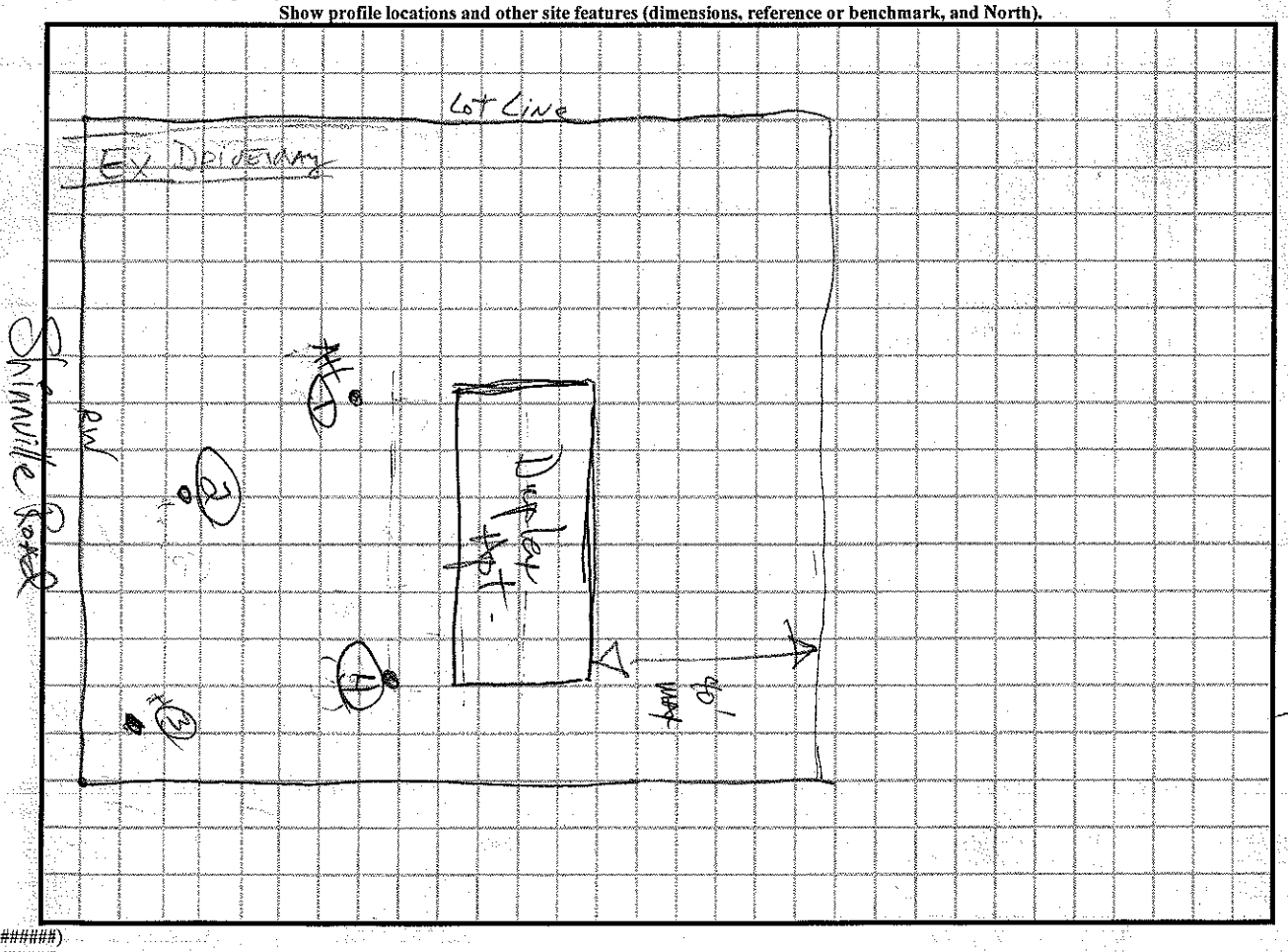
NOTES

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 (#####)

DENR/DEH

ON-SITE WASTEWATER SECTION

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

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Kelli Midgett
ADDRESS: _____
PROPOSED FACILITY: Duplex
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: 697 Shannonhouse Rd. Lot 1 Liberty
WATER SUPPLY: • Private • Public • Well • Spring • Other _____
EVALUATION METHOD: • Auger Boring • Pit • Cut
TYPE OF WASTEWATER: • Sewage • Industrial Process • Mixed

APPLICATION DATE _____
DATE EVALUATED: 6-5-13
PROPERTY SIZE: _____
PROPERTY RECORDED: _____

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5	2% L	0-9	WKSBK cl	FRSSSPSEKP					
		9-22	SBK C	FRSSSPSEKP					
		22-38	WKSBK cl-LSAP	FRSSSP	NONE OBS	44"	Probably PS	NONE OBS	II.3
		38-44	WKSBK LSAP	FRSSSP					
		44-48	Unsure LSAP	FRSSSP					
6	14% L	0-27	SBK C	FRSSSPSEKP					
		27-48	SBK cl-LSAP	FRSSSP SSAP	NONE OBS	48"	NA	NONE OBS	.3
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
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System Type(s)		
Site LTAR		

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

COMMENTS: _____

LEGEND

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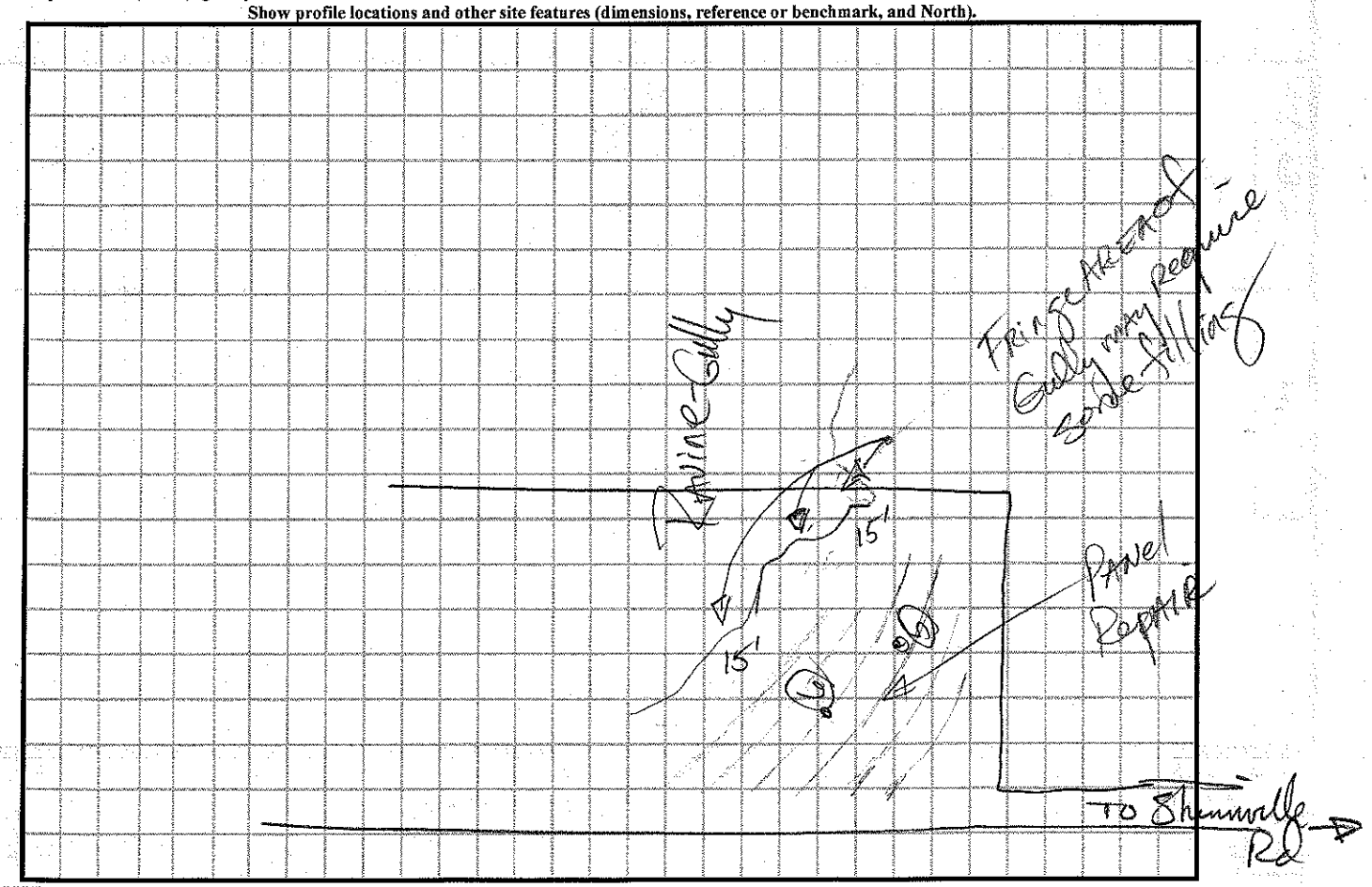
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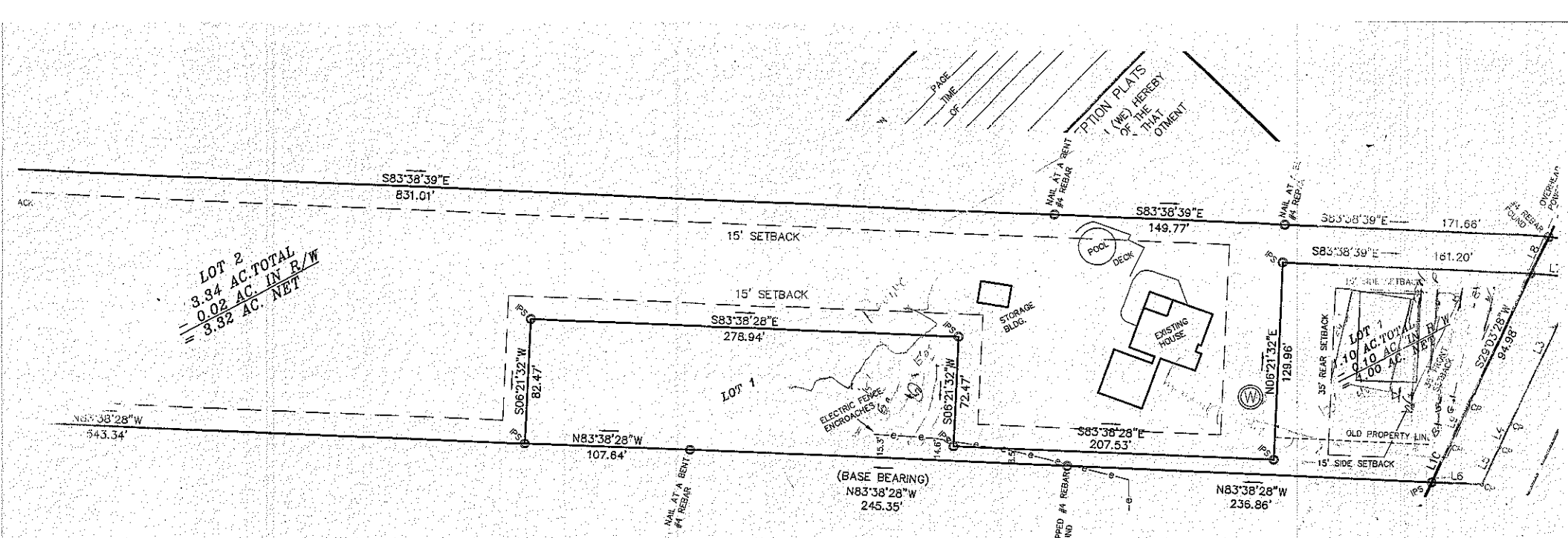
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DENR (######)
Review (#####)


PAGE
TIME
OF
-PTION PLATS
I (WE) HEREBY
OF THE
THAT
OTMENT
S83°38'39"E
831.01'
NAIL AT A BENT
#4 REBAR
S83°38'39"E
149.77'
NAIL AT
#4 REBAR
S83°38'39"E
171.66'
#4 REBAR
FOUND
S83°38'39"E
161.20'
15' SETBACK
POOL
DECK
EXISTING
HOUSE
STORAGE
BLDG.
LOT 2
3.34 AC. TOTAL
0.02 AC. IN R/W
= 3.32 AC. NET
15' SETBACK
IPS
S83°38'28"E
278.94'
IPS
S06°21'32"W
82.47'
LOT 1
ELECTRIC FENCE
ENCROACHES
S06°21'32"W
72.47'
N06°21'32"E
129.96'
IPS
35' REAR SETBACK
LOT 1
1.10 AC. TOTAL
0.10 AC. IN R/W
1.00 AC. NET
S29°03'28"W
94.98'
N83°38'28"W
543.34'
IPS
N83°38'28"W
107.64'
S83°38'28"E
207.53'
OLD PROPERTY LIN
15' SIDE SETBACK
IPS
NAIL AT A BENT
#4 REBAR
(BASE BEARING)
N83°38'28"W
245.35'
PPED #4 REBAR
IND
N83°38'28"W
236.86'
L1
L2
L3
L4
L5
L6
C1
C2
C3
C4
C5
C6
C7
C8