DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 3
PROPERTY ID #:
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Coala Pettit — APPLICATION DATE 4/7/16
ADDRESS: 1205 Shelton Ave. Sal. NC — DATE EVALUATED: 6/8/16
PROPOSED FACILITY: Business — PROPOSED DESIGN FLOW (.1949): 200GPD (ENR) — PROPERTY SIZE: 1.5 Acre
LOCATION OF SITE: 4276 Wilkesboro Hwy Sal. NC — PROPERTY RECORDED: NO
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
A 1	SS 8%	0-9	BCL, WSBK	FR, SS SP	MINOR MOTTLING 28-34 MODERATE MOTTLING 34-48"	48"	F SAP INCL.	/	.275 0-34" .25 34-48"
		9-34	RCL, WSBK	FR, S, P					
		34-48	RCL, WABK	FR, S, P					
A 2	TS 5%	0-8	RCL, WSBK	FR, SS, SP	DRAINAGE MOTTLING 19"-34"	48"	F SAP INCL.	/	.25 0-30" .3 30-48"
		8-32	RC, WSBK	FR, S, P					
		32-48	RC, SBK	FR, SS, SP					
A 3	SS 5%	0-6	BCL, WSBK	FR, SS, SP	SOME DRAINAGE MOTTLING 18-34"	48"	F-L SAP INCL.	/	.275
		6-48	RC, WSBK	" S%, SP/P					
A 4	TS 7%	0-6	RCL, WSBK	FR, SS, SP	DRAINAGE MOTTLING 9"-20"	48"	F-L SAP INCL.	/	.25 0-21" .3 21-48"
		6-20	RC, WABK	F, S, P					
		20-48	RC, SBK	FR, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	TS	TS
System Type(s)	Approved	Approved
Site LTAR	.275	.25

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): TS
EVALUATED BY: SC
OTHER(S) PRESENT: —

COMMENTS:

LEGEND

use the following standard abbreviations

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

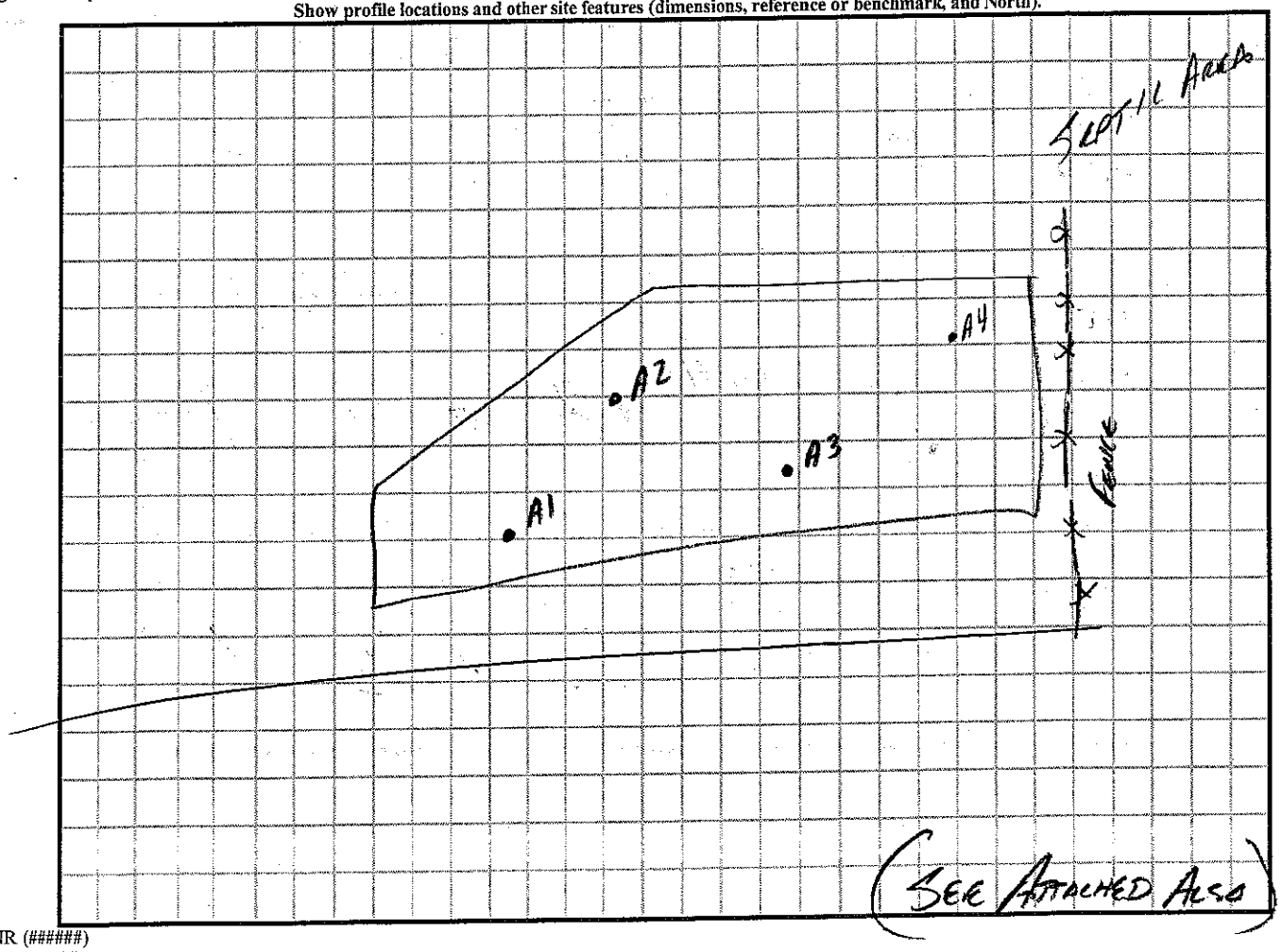
NOTES

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 (#####)

1" = 60'   3/3

866.4 GAL MIN.
TANK SIZE

SOIL NOTES

W 20'
P 50'
B 85'
O 16'
W 90'
R 20'
P 68'

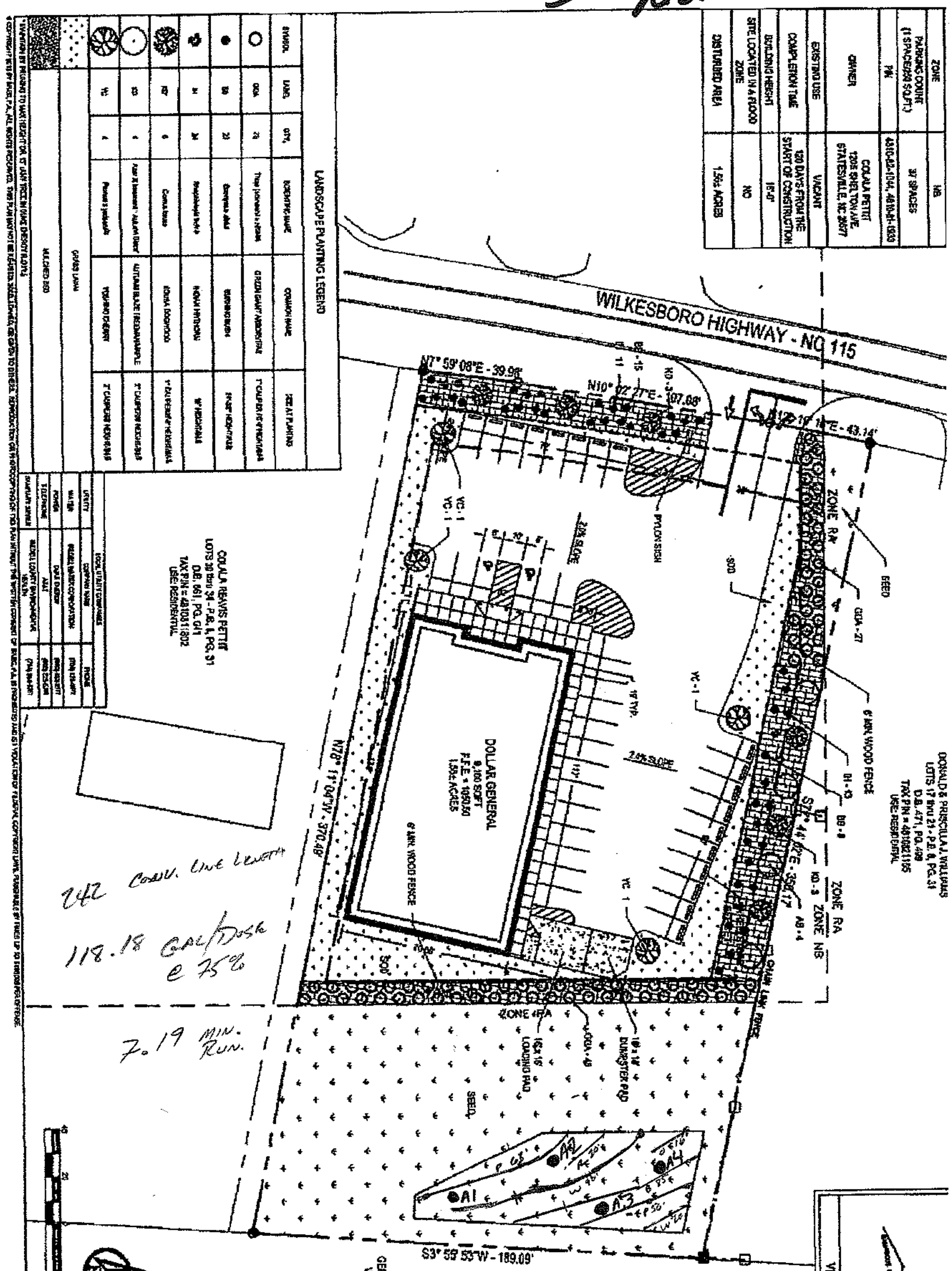
DESIGN LENGTH

W 20'
P 41'
B 61'
W 61'

182' @ .275

3 LINES @ 61'

133' REPAIR
LPPPBPS
NEEDED



242 CONV. LINE LENGTH

118.18 GAL/DOSE
@ 75%

7.19 MIN.
RUN.

~~87.1 GAL/DOSE~~

1/2" SCH 80 TAPS
16.44 GAL/MIN

5.36 MIN.
RUN. TIME