

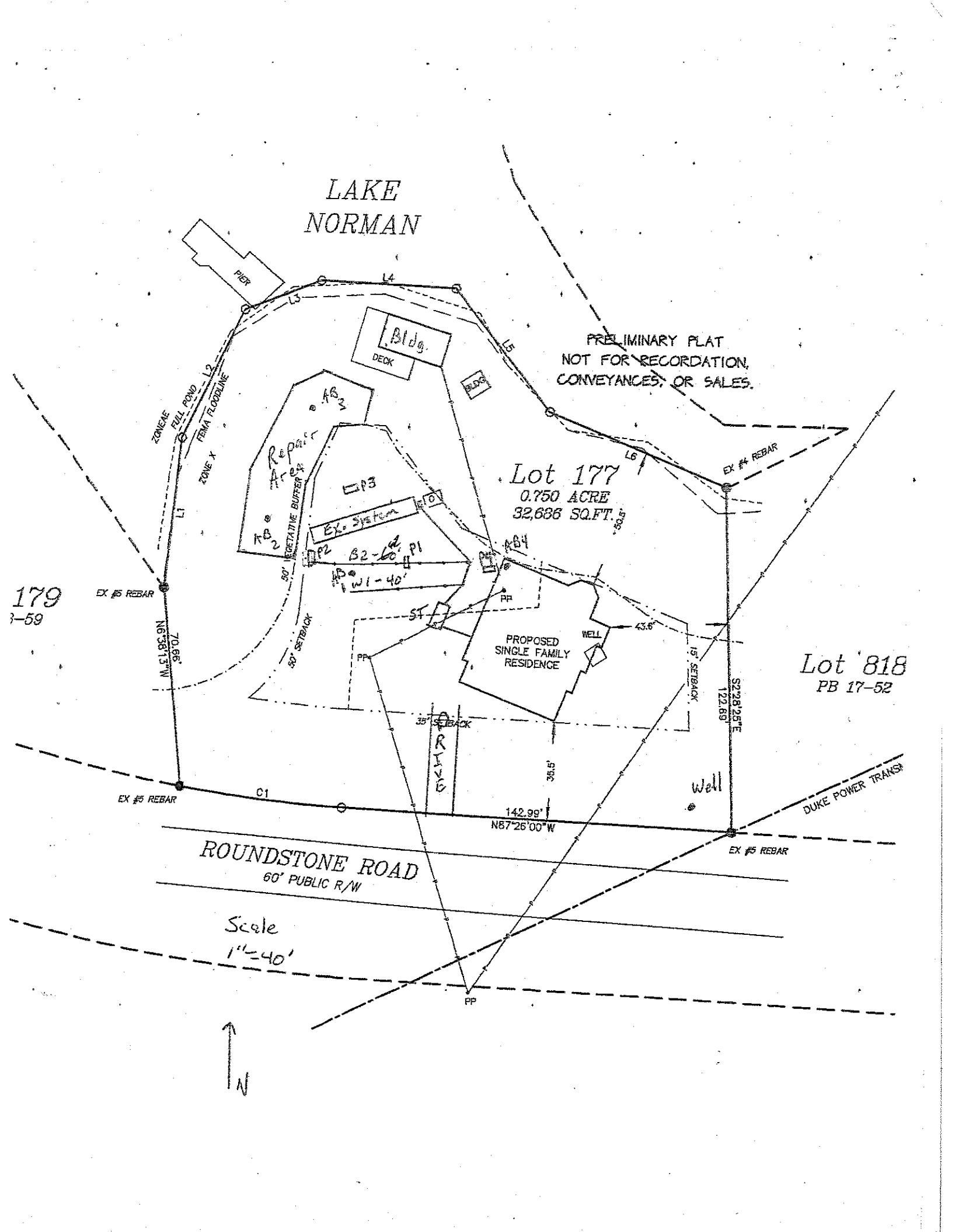
MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 120 Roundstone RD. CL&T Sec 17 Lot 177
House Footprint: See attached plan
Building Setbacks: 35' front, 50' lake, 15' side
Water Source: Private well
Number of Bedrooms: 3/360 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: 25% Reduction + Ex. Bed (currently 2 bedrooms)
Proposed Repair System Type: Pretreatment Drip irrigation
Distribution: Gravity-End cap/drop boxes
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 30"

Line	Design Length	Actual Length
White 1	40'	50'
Blue 2	60'	60'

Initial System: 100' + Ex. bed **Repair System:** 1200 FT2

Comments:
The existing 2 bedroom system has been uncovered and is approximately 7' below the surface. The existing septic tank is within the 50' buffer and will be abandoned. A new tank will be installed. The new lines will be fed first and will then flow to the existing system. The building by the lake has plumbing and will require a grinder pump to the new septic tank. This existing building will be used as a recreational area. The existing well must be abandoned and a new well installed. The new house will be built in the buildable area. The grade at the septic tank will be lowered to maintain gravity flow to the tank and the tank will be down slope from the basement foundation. The septic tank can be placed to be parallel with the drain line.


LAKE
NORMAN
PIER
L4
L3
L5
L6
L2
L1
Bldg.
DECK
BLDG
PRELIMINARY PLAT
NOT FOR RECORDATION,
CONVEYANCES, OR SALES.
ZONEAE
FULL POND
FEMA FLOODLINE
ZONE X
Repair Area
AB3
AB2
AB4
P3
P2
P1
EX. System
B2 - 60'
W1 - 40'
50' VEGETATIVE BUFFER
50' SETBACK
Lot 177
0.750 ACRE
32,686 SQ.FT.
50.3'
EX #4 REBAR
EX #5 REBAR
179
3-59
N6°38'13"W
70.66'
PP
ST
PROPOSED
SINGLE FAMILY
RESIDENCE
WELL
43.6'
15' SETBACK
35' SETBACK
RIVD
35.6'
Well
Lot 818
PB 17-52
S2°28'25"E
122.69'
C1
142.99'
N87°26'00"W
DUKE POWER TRANS
ROUNDSTONE ROAD
60' PUBLIC R/W
Scale
1"=40'
N

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4629753686_
COUNTY: _Iredell_____

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

OF 4A

OWNER: _Thomas Kusek_____ APPLICATION DATE_____
ADDRESS: 26435 Springland St., Farmington Hills, MI 483334_____ DATE EVALUATED: _____
PROPOSED FACILITY: _3 bdrm_____ PROPOSED DESIGN FLOW (.1949): _360 GPD_____ PROPERTY SIZE: _0.75 AC_____
LOCATION OF SITE: _120 Roundstone Rd, CL&T Sec17 Lot 177_____ PROPERTY RECORDED: _6/3/1976_____
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
PIT 1	LS 5% ✓	0-12	FILL		N/A	*	PS	N/A	PS 0.4-0.6
		12-60	SL SAP M	VFR SS SP					
PIT 2	LS 5%	0-7	Br CL WSBK	FR SS SP	N/A	42"	F-C SAP PS	N/A	PS 0.3 -Clipped Existing Bed
		7-36	R C SBK	FR SS SP					
		36-42	R CL WSBK	FR SS SP					
		42-48	SL SAP M	FR SS FR SS SP					
PIT 3	LS 5%	0-24	FILL		CHR 2 @ 53"	53"	N/A	N/A	US
		24-53	R C SBK	FR SS SP					
PIT 4	LS 3% ✓	0-28	SL SAP M	VFR SS SP	N/A	*	PS	N/A	PS 0.4-0.6
		28-60	LS SAP M	VFR NS NP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	Ex sys + 300FT2	1200+ FT2
System Type(s)	Ex sys + 25% R	DRIP
Site LTAR	0.3	0.1

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: _____M A & A_____
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

OR for

PROPERTY ID #: 4629753686
DATE OF EVALUATION:
COUNTY: IREDELL

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
AB 1	LS 5%	0-7	FILL		N/A	*	PS	N/A	PS 0.4-0.6
		7-60	SL SAP M	FR SS SP					
AB 2	LS 8% ✓	0-9	RBr CL WSBK	FR SS SP	N/A	30"	N/A	N/A	PS 0.3 0.1 PSLW
		9-30	YR C SBK	FR SS SP					
AB 3	LS 8% ✓	0-6	RBr CL WSBK	FR SS SP	N/A	30"	N/A	N/A	PS 0.3 0.1 DRIP
		6-30	R C SBK	FR SS SP					
AB 4	LS 3%	0-5	YR C SBK	FR SS SP	N/A	5"	PS	N/A	PS 0.4-0.6
		5-36	SL SAP M	VFR SS SP					
		36-60	LS SAP M	VFR NS NP					

COMMENTS: