

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

Reference: Data Sheet for Watertree Landing, Lot 35
House Footprint: 67' x 64'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Predetermined LTAR: 0.3 GPD/FT2 (ICHD)
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Gravity-drop boxes/ end cap
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 36"

Line	Design Length	Actual Length
Blue 1		45'
Pink 2		65'
Yellow 3		55'
Orange 4		53'
Yellow 5	**75'**	**75'**
Pink 6	**120'**	**127'**
Orange 7	**90'**	**90'**
Yellow 8	**90'**	**91'**
White 9		65'
Orange 10	**25'**	**27'**

OK MD 8/13/14

Initial System: 400' **Repair System:** 283'

Comments:
The purpose of this evaluation was to change the house size, change system type and add a pool. There were 2 soil observation excavated in what used to be classified as the old road bed. MA&A found no indication of compaction or any other adverse soil conditions. All soil observations confirmed the current permitted soils rating of a .3gpd/ft2. Please note the house location was located by the surveyor and has been located by use of pink flagging and nails. The pool was denoted with blue pin flags.

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

Sheet __1__ *of* __1__
PROPERTY ID #: _4616903116
COUNTY: _Iredell_____

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

OWNER: _Lake Luxury Homes_____ APPLICATION DATE_____
ADDRESS: Mooresville, NC_____ DATE EVALUATED: 6-5-14_____
PROPOSED FACILITY: _4 bedroom_____ PROPOSED DESIGN FLOW (.1949): 480 GPD_____ PROPERTY SIZE: _____0.69 AC_____
LOCATION OF SITE: Watertree Landing, Lot 35_____ PROPERTY RECORDED: _12/21/2007_____
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

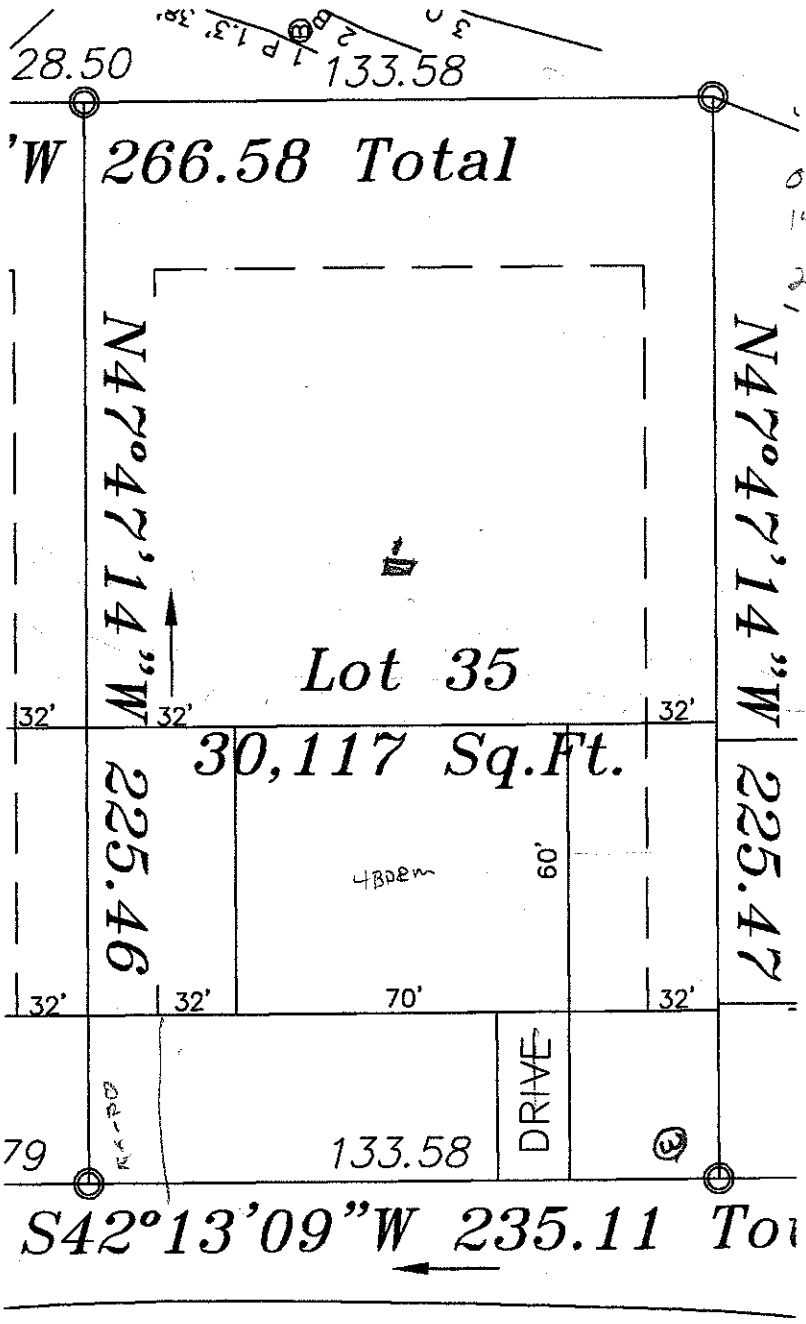
PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS 5% ✓ AZP	0-32	R CL WSBK	FR SS SP	N/A	32"	Com SAP Inc PS	N/A	PS 0.3-0.4
		32-80	VER SL SAP M	VFR SS SP					
2	LS 8%	0-32	R C SBK	FR SS SP	N/A	58"	Few SAP	N/A	PS 0.3-0.35
		32-48	R CL WSBK	FR SS SP					
		48-58	R L WSBK	FR SS SP			Com SAP		
P2 3	LS 7-8% AZP	0-22	RC MSBK	FR SS SP SS AP		48"	—		PS .3
		22-48	RCL WSBK	FR SS SP SS AP					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200 FT2	810+ FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.3 (ICHD)	0.3 (ICHD)

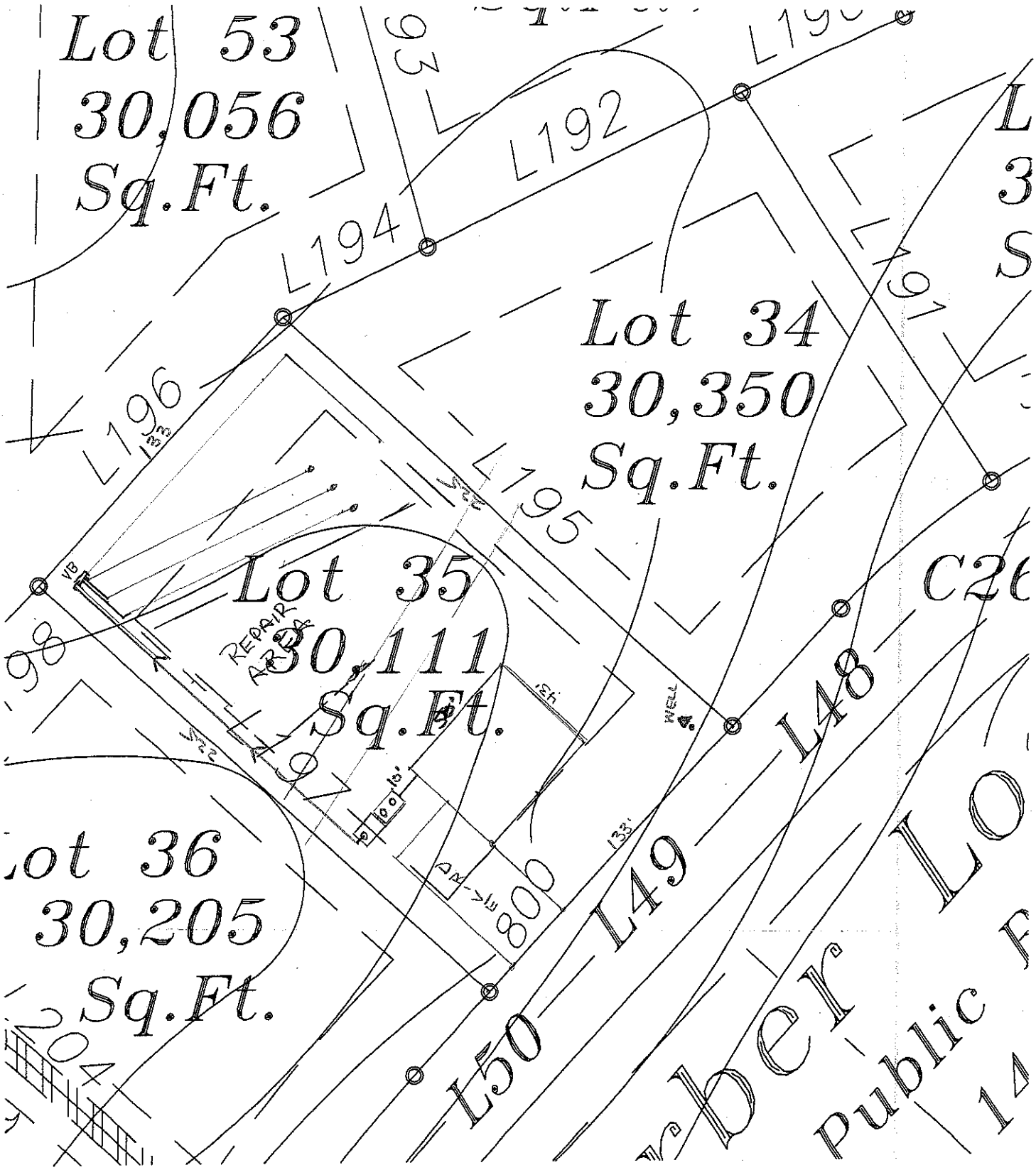
OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: __M A & Associates_____
OTHER(S) PRESENT: _____

COMMENTS: I (Adrian) reclassified each pit, agreeing with Pit 1 and reclassifing Pit 2

APPROVED JUL 07 2014 AZP



0-13 cl-W-F sbk-S-S-
14-25 wF-cl-F-S-S
26-42 wFl-NS-SP-


Lot 53
30,056
Sq.Ft.
L193
L192
L194
L196
L195
L191
Lot 34
30,350
Sq.Ft.
Lot 35
30,111
Sq.Ft.
REPAIR AREA
WELL #4
L97
L98
L148
L149
L150
133'
Lot 36
30,205
Sq.Ft.
Public
(1" = 50')

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #:
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

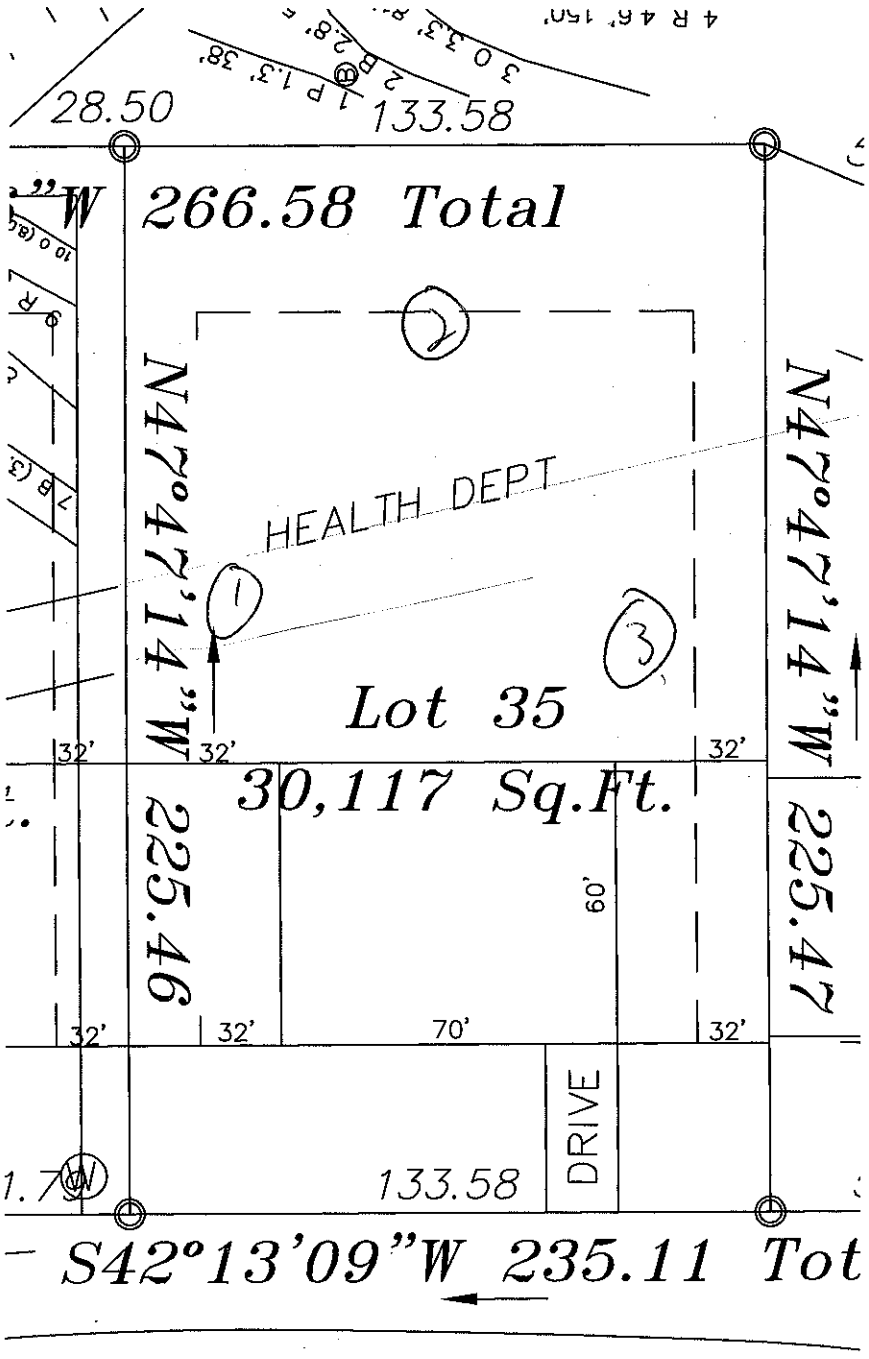
OWNER: Mid-Atlantic Dev. Co.
ADDRESS:
PROPOSED FACILITY: RES
PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: Lot 35 Waterfree landing
WATER SUPPLY: ☑ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut
APPLICATION DATE 1/08
DATE EVALUATED: 1/08
PROPERTY SIZE:
PROPERTY RECORDED: Yes
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
1		0-6	BSCL GR	fri SSSP SPX P	common SAP	48	—	-	.3
		6-48	RC MFSBK	fri SSSP SPX P					
2		0-24	RC SBK	fri SSSP SPX P	—	48	—	-	.3
		24-48	RCL VFSBK	fri SSSP SPX P					
3		0-22	RC SBK	fri SSSP SPX P	—	48	—	-	.3
		22-48	RCL WSBK	fri SSSP SPX P					
4									

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

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Rollins Soil & Environmental
OTHER(S) PRESENT:

COMMENTS:


28.50
133.58
W 266.58 Total
N47°47'14"W 225.46
N47°47'14"W 225.47
HEALTH DEPT
Lot 35
30,117 Sq.Ft.
32'
32'
32'
60'
70'
32'
32'
DRIVE
133.58
S42°13'09"W 235.11 Tot