County

APPROVED JUL 07 2014
AZP



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 ENNIS RD.
WEDDINGTON, NC 28173
(704) 576-3887

Reference: Data Sheet for Watertree Landing, Lot 34
House Footprint: 72' x 65'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Predetermined LTAR: 0.3 GPD/FT2 (Currently permitted 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
White 1	**85'**	**85'**
Orange 2	**85'**	**85'**
Blue 3	**75'**	**75'**
White 4	**65'**	**65'**
Orange 5	**65**	**65'**
Blue 6	**25'**	**62'**
White 7		52'
Orange 8		50'
Blue 9		50'
White 10		54'
Pink 11		50'

Initial System: 400' **Repair System:** 288'

Comments:
The purpose of this evaluation was to change the house size and septic system type from a panel to 25% reduction system. There were 2 soil observation/pits excavated in what used to be classified as a road bed, MA&A found no indication of compaction or any other adverse soil characteristics. All soil observations confirmed the current permitted soils rating of a .3gpd/ft2. Please note house was located by the surveyor with pink ribbon and nails.

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

Sheet __1__ *of* __1__
PROPERTY ID #:
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 34_____ PROPERTY RECORDED: _2007_____
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

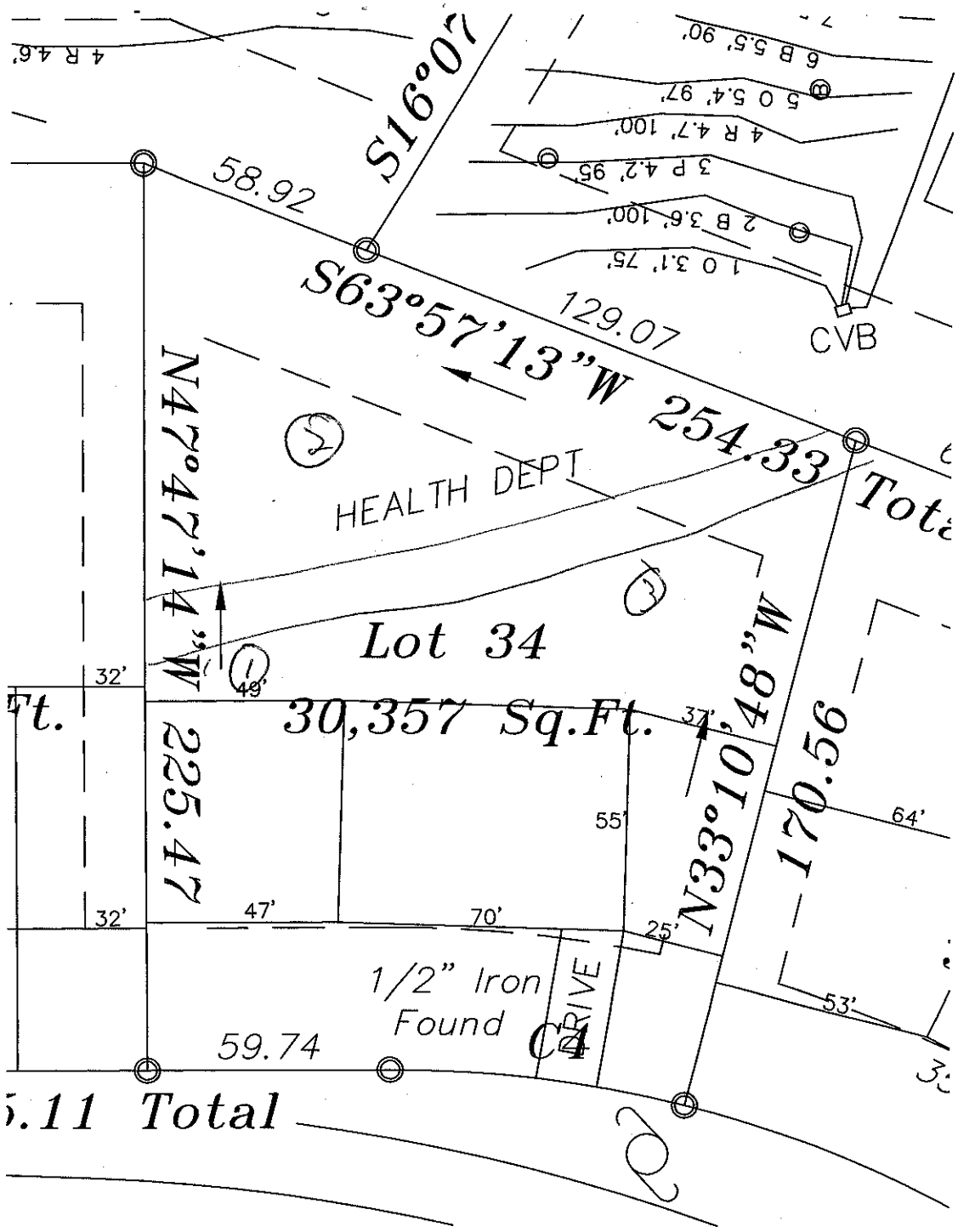
PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 3-5%	0-16	R C SBK	F-FR SS SP	N/A	60"	Comm. to many SAP Inc	N/A	PS 0.3-0.35
		16-30	R CL WSBK	FR SS SP					
		30-60	R L WSBK	VFR SS/SP					
2	LS 3-6%	0-26	R C SBK	F-FR SS SP	N/A	58"	Few SAP Com SAP	N/A	PS 0.3-0.35
		26-41	R CL WSBK	FR SS SP					
		41-56	R L WSBK	VFR SS SP					
P1 3 ALP	SS 2%	0-8	F.11			46"			PS .3
		8-16	R C L WFSBK	Fr SS SP SE P					
		16-28	R CL L WFSBK	Fr SS SP SE P	Com Sap				
		28-46	BR L VWFSBK	Fr SS SP SE P	Com Sap				
P2 4 ALP	SC 3%	0-5	B SCL Gr	Fr SS SP SE P		35"	PS		PS .3
		5-25	R C MASBK	Fr SS SP SE P					
		25-35	R CL WFSBK	Fr SS SP SE P	Com Sap				
		35-48	Var L Sap	M Fr SS SP SE P					

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 both pits as indicated above.

APPROVED JUL 07 2014


S16°07
58.92
S63°57'13"W 254.33
129.07
CVB
N47°47'14"W 225.47
HEALTH DEPT
Lot 34
30,357 Sq.Ft.
N33°10'48"W 170.56
32'
49'
31'
55'
64'
32'
47'
70'
25'
53'
1/2" Iron Found
DRIVE
59.74
C4
.11 Total

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 34 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

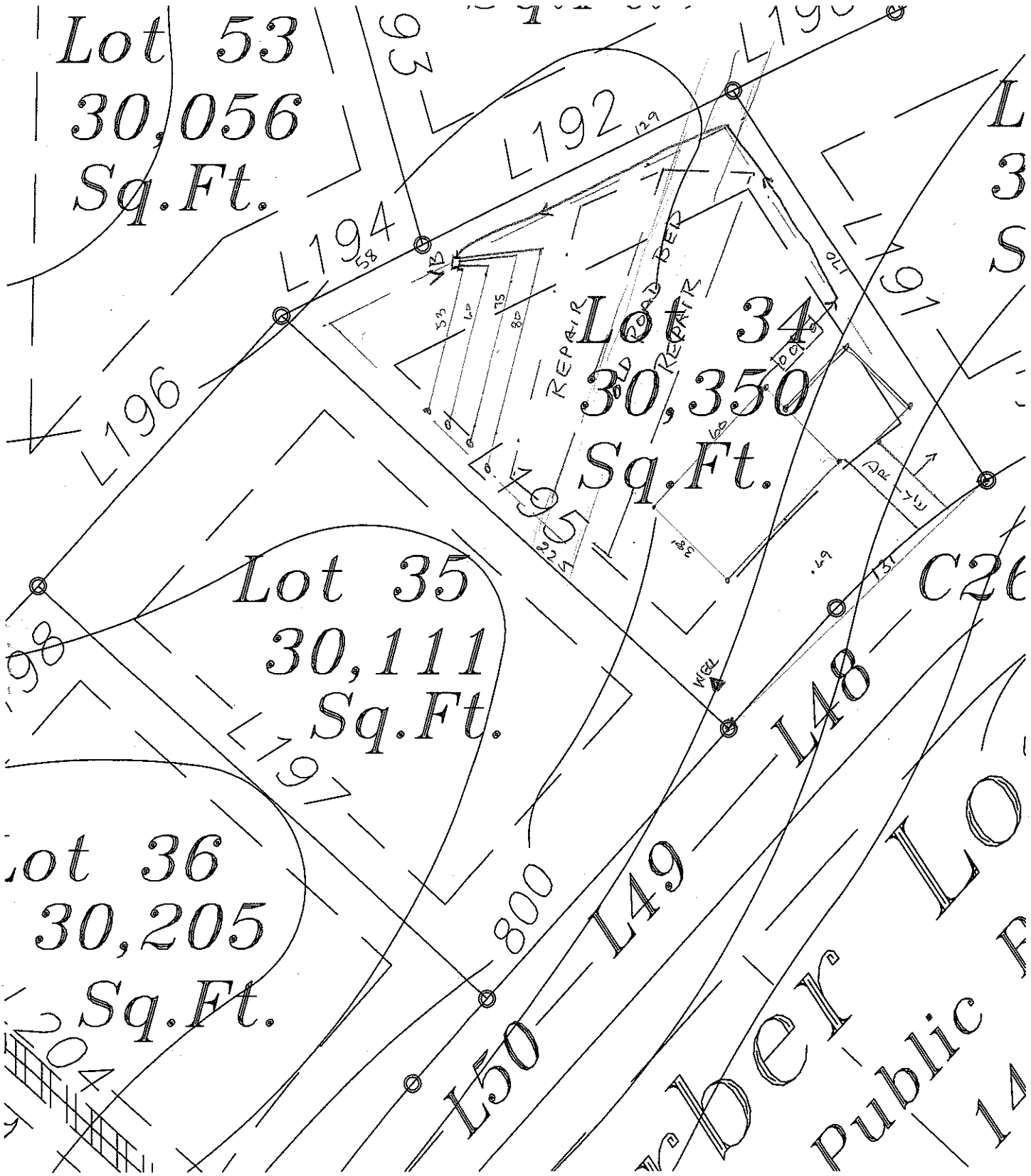
TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1		0-26	RC SBK	fri SSSP SGXP	-	48	-	-	.3
		26-48	RCL WSBK	fri SSSP SGXP					
2		0-36	RC MFSBK	fri SSSP SGXP	-	36	-	-	.3
3		0-21	RC SBK	fri SSSP SGXP	-	52	-	-	3
		21-52	RCL WSBK	fri SSSP SGXP					
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:


Lot 53
30,056
Sq.Ft.
L193
L192
L194
L196
L195
L191
Lot 34
30,350
Sq.Ft.
REPAIR
ROAD REPAIR
Lot 35
30,111
Sq.Ft.
L197
Lot 36
30,205
Sq.Ft.
L198
L204
L150
L149
L148
WELL
800
Public