Lot 50 Watertree Fast Track Septic System Information

Number of Bedrooms	4
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.35
Primary System Type	**LP PPBPS**
No. Lines	4 (See Table)
Total Linear Feet	229
Trench Width	2'
Trench Spacing	8'
Trench Depth	~~30~~ 31" KMS
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	85' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	25.5 gpm
Elevation head	Approx. 14.3'
Pressure head	3.0'
Friction head	1.1'
20% Contingency	3.7'
Total Head	22.1'
Pump Requirements	25.5 gpm @ 22.1' of head To be designed by installer.
Maximum Dosing Volume	183.6 gal -2.2 doses/day @ design flow*
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 7.2 min.
Check Valve	Yes
Siphon Break hole	No
Repair System	**LP PPBPS**
Total Linear Feet	320
Repair LTAR	0.25

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**

Table 1: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	Repair	Blue	LPPPBPS	49	2.2				
2	Repair	Red	LPPPBPS	122					
3	Repair	Pink	LPPPBPS	112					
4	Repair	Orange	LPPPBPS	37	7.5				
5	System	Orange	LPPPBPS	51 endfed	7.5	11	11	1 per panel	5/32"
6	System	Blue	LPPPBPS	80 endfed		18	18	1 per panel	5/32"
7	System	Orange	LPPPBPS	58 endfed		13	13	1 per panel	5/32"
8	System	Pink	LPPPBPS	40 endfed		9	9	1 per panel	5/32"
						Total: 51	Total: 51 (1 in each panel turned up)		
				Total System: 229'					
				Total Repair: 320'					

Tank	orange	1000 gal (2 compartment)	15.8
Pump Tank	orange	1000 gal.	
House	staked		

Note: **All Rod Readings should be verified by installer prior to installation of system**
Location of tanks and/or distribution devices can be moved at the ICHD's discretion

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1
Property ID:
Lot #: 50
File #:
AppID:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Lake Luxury Homes
Address: 4616 Barker Loop
Proposed Facility: SFR Design Flow (.1949)
Location of Site:

Applicant:
Date Evaluated: 7/29/15
Property Size: 0.72
Property Recorded:

Water Supply: [ ] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [ ] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	SOIL MORPHOLOGY .1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	L ~12%	0-21	Mo SBK C	FR SS/SP	R; F Sap				0.35
		21-37	WK SBK CL	↓	R; C Sap				
		37-50	MA L Sap	↓	R				
2	L ~15%	0-14	Mo SBK C	FR SS/SP	R; F Sap				0.35
		14-33	WK SBK CL	FR SS/SP	R; C Sap				
		33-55	MA L Sap	FR SS/SP	Mu Hi				
3	L ~15%	0-16	Mo SBK C	FR SS/SP	R; F Sap				0.3
		16-40	WK SBK CL	↓	R; C Sap				
		40-54	MA L Sap	↓	R				
4	L 12%	0-12	WK SBK C	FI SS/SP	R; C yel/ brown.				.25
		12-17	[illegible]	FI SS/SP	R				
		17-47	[illegible]	FI [illegible]	L, C Sap F				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR		

Other Factors (.1946):
Soil Evaluation By: KMS
Others Present: FLH
Site Classification (.1948):
Site Evaluation By: KMS
Others Present: FLH

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 2
Property ID:
Lot #: 50
File #:
AppID:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Lake Luxury Homes
Address: 466 Barner Loop
Proposed Facility:
Design Flow (.1949)
Location of Site:

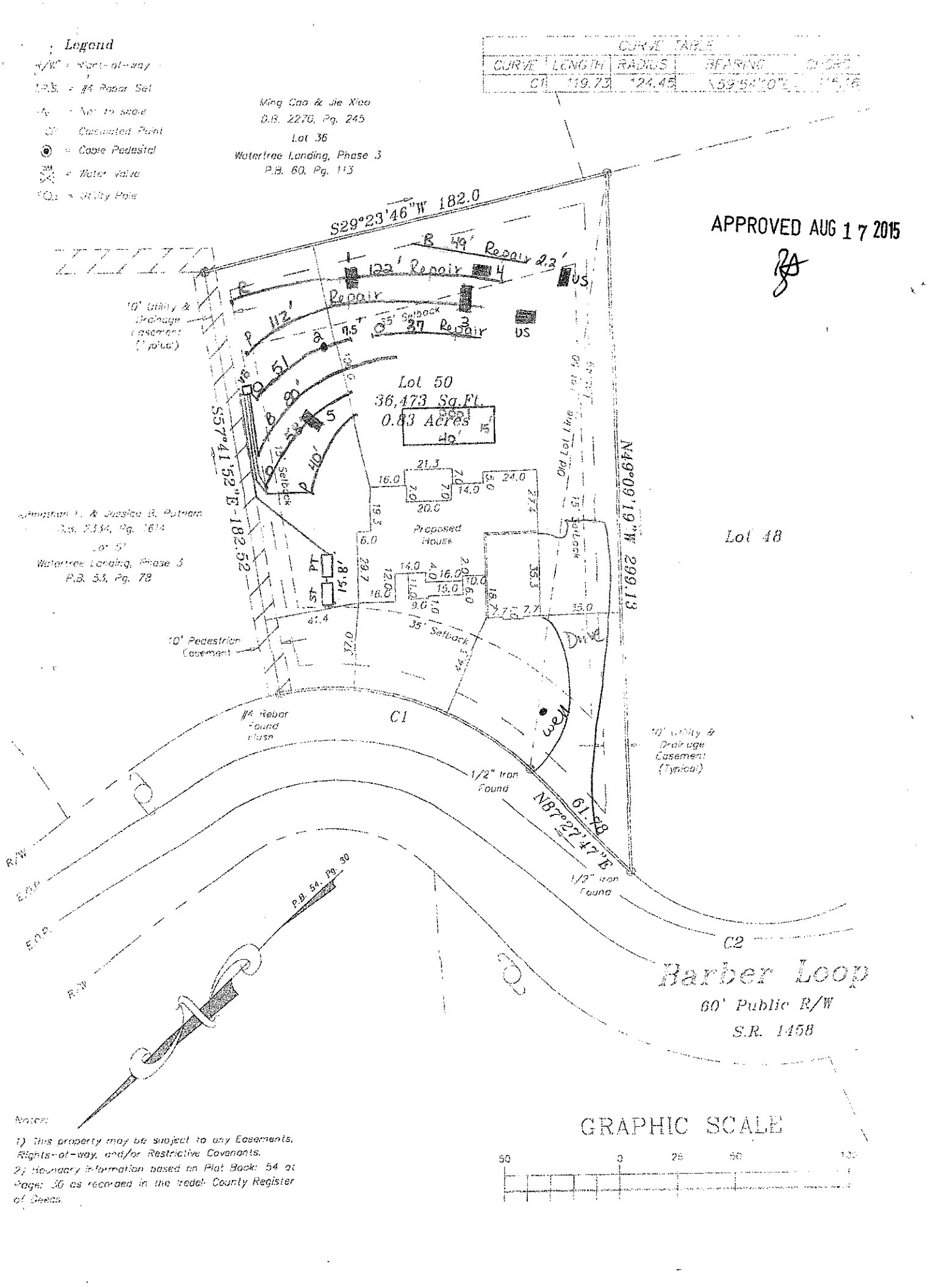
Applicant:
Date Evaluated: 7/29/15
Property Size: 0.83
Property Recorded:

Water Supply: [ ] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [ ] Sewage [ ] Industrial Process [ ] Mixed

P R O F I L E #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	.1941 Consistence Mineralogy	PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
5	L 15%	0-32	WK SBK CL	FR SS/SP	R, C Sap				0.35
		32-60	MA SAP L	FR SS/SP	R,				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR		

Other Factors (.1946):
Soil Evaluation By: KMS
Others Present: ELH
Site Classification (.1948):
Site Evaluation By: KMS
Others Present: ELH



Notes:

1) This property may be subject to any Easements, Rights-of-way, and/or Restrictive Covenants.
2) Boundary information based on Plat Book: 54 at Page: 30 as recorded in the Iredell County Register of Deeds.