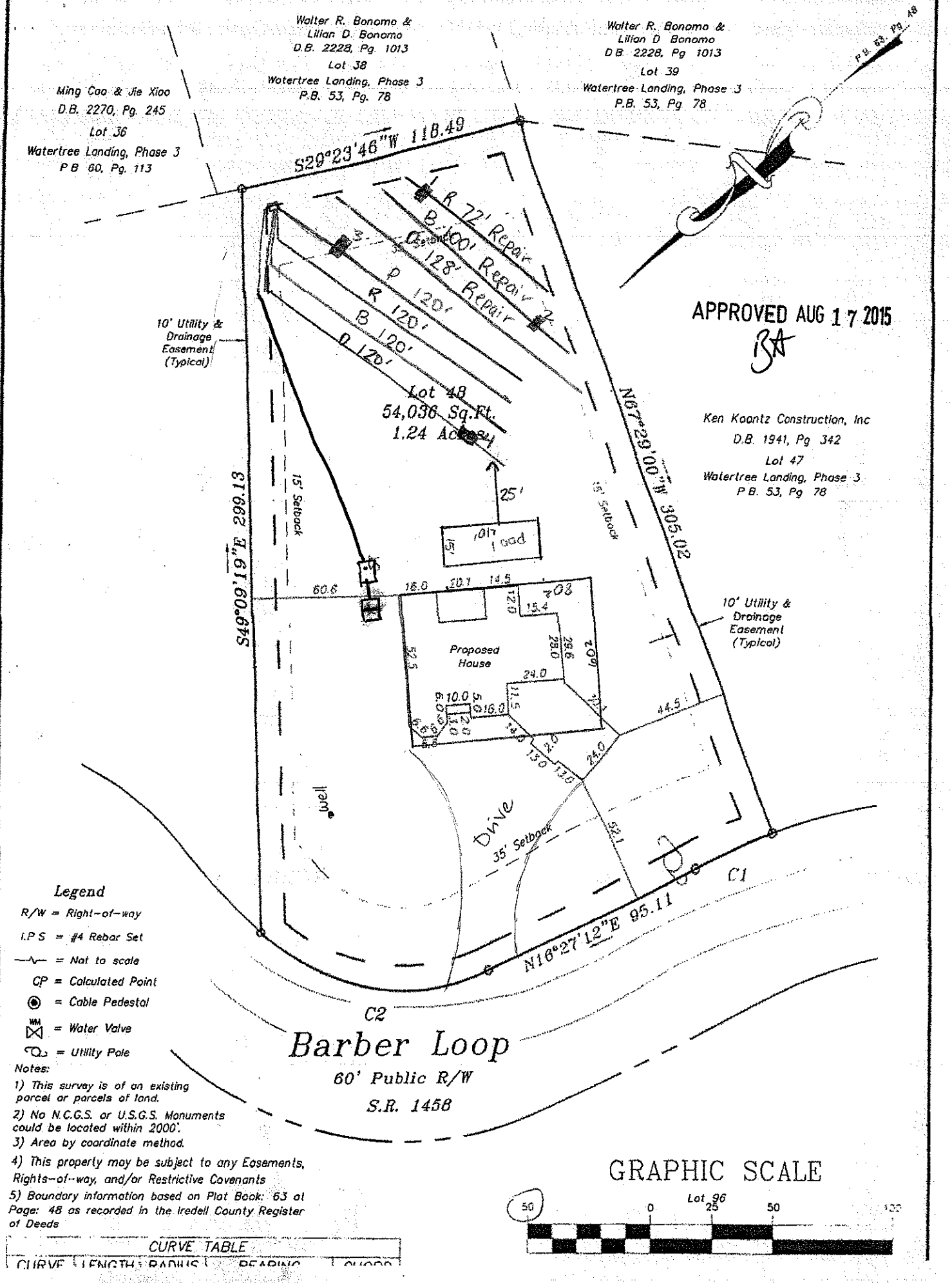


Legend

R/W = Right-of-way

I.P.S = #4 Rebar Set

—∿— = Not to scale

CP = Calculated Point

◉ = Cable Pedestal

WM = Water Valve

= Utility Pole

Notes:

1) This survey is of an existing parcel or parcels of land.

2) No N.C.G.S. or U.S.G.S. Monuments could be located within 2000'.

3) Area by coordinate method.

4) This property may be subject to any Easements, Rights-of-way, and/or Restrictive Covenants

5) Boundary information based on Plat Book: 63 at Page: 48 as recorded in the Iredell County Register of Deeds

CURVE TABLE			
CURVE	LENGTH	RADIUS	BEARING

GRAPHIC SCALE

50 0 25 50 100

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Watertree Lot 48 Fast Track Septic Spec Sheet

Number of Bedrooms	**4**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.25**
Primary System Type	**25% Reduction**
No. Lines	4 (See Table)
Total Linear Feet	480
Trench Width	3' min.
Trench Spacing	9' min.
Max Trench Depth	~~36"~~ 21.5" kms
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	140' of 2" SCH 40 PVC
Flow Rate through the system	22 gpm
Elevation head	Approx. 23.1'
Pressure head	2.0'
Friction head	1.2'
20% Contingency	5.3'
Total Head	31.6'
Pump Requirements	22 gpm @ 31.6' of head To be designed by installer.
Maximum Dosing Volume	240 gal -2.0 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. 10.9 min.
Repair System	**LP PPBPS**
Total Linear Feet	300
Repair Loading Rate	0.3

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Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Elevation (Ft.)
1	Repair	Red	LP PPBPS	72	2.6
2	Repair	Blue	LP PPBPS	100	
3	Repair	Orange	LP PPBPS	128	
4	System	Pink	25% Reduction	120 endfed	
5	System	Red	25% Reduction	120 endfed	
6	System	Orange	25% Reduction	120 endfed	12.5
7	System	Blue	25% Reduction	120 endfed	
				Total System: 480'	
				Total Repair: 300'	

Tank	orange	1000 gal (2 compartment)	
Pump Tank	orange	1000	19.7
House	staked		

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	4
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

Note: **All rod readings should be verified by installer prior to installation**
Tank Locations and distribution devices may be altered at the discretion of the ICHD

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

APPROVED AUG 25 2015

Sheet: 1
Property ID:
Lot #: 48
File #:
AppID:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Lake Luxury Homes LLC
Address: 452 Barber Loop
Proposed Facility: Design Flow (.1949)
Location of Site:

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

Water Supply: [ ] Public [ ] Individual [X] 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 .1941 Structure/ Texture	.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 18%	0-25	mo SBK C	FR SS/SP	R; F Sap				0.3
		25-50	WK SBK CL	"	R; C Sap; F Quartz				
				2 yel clay/sap veins in Pit Wall					
2	L 18%	0-29	mo SBK C	FR SS/SP	R; F Sap				0.3
		29-57	WK SBK CL	"	R; C Sap				
				Quartz pocket in side wall					
3	L 18%	0-27	mo SBK C	FR SS/SP	R; F yel/bro				.25
		27-48	WK SBK C	FR SS/SP	R; F yel/bro/gry Sap				
4	L 18%	0-8	mo SBK C	FR SS/SP	R				0.3
		8-32	WK SBK CL	↓	R; C Sap				
		32-48	MA L Sap	↓	R yel				

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