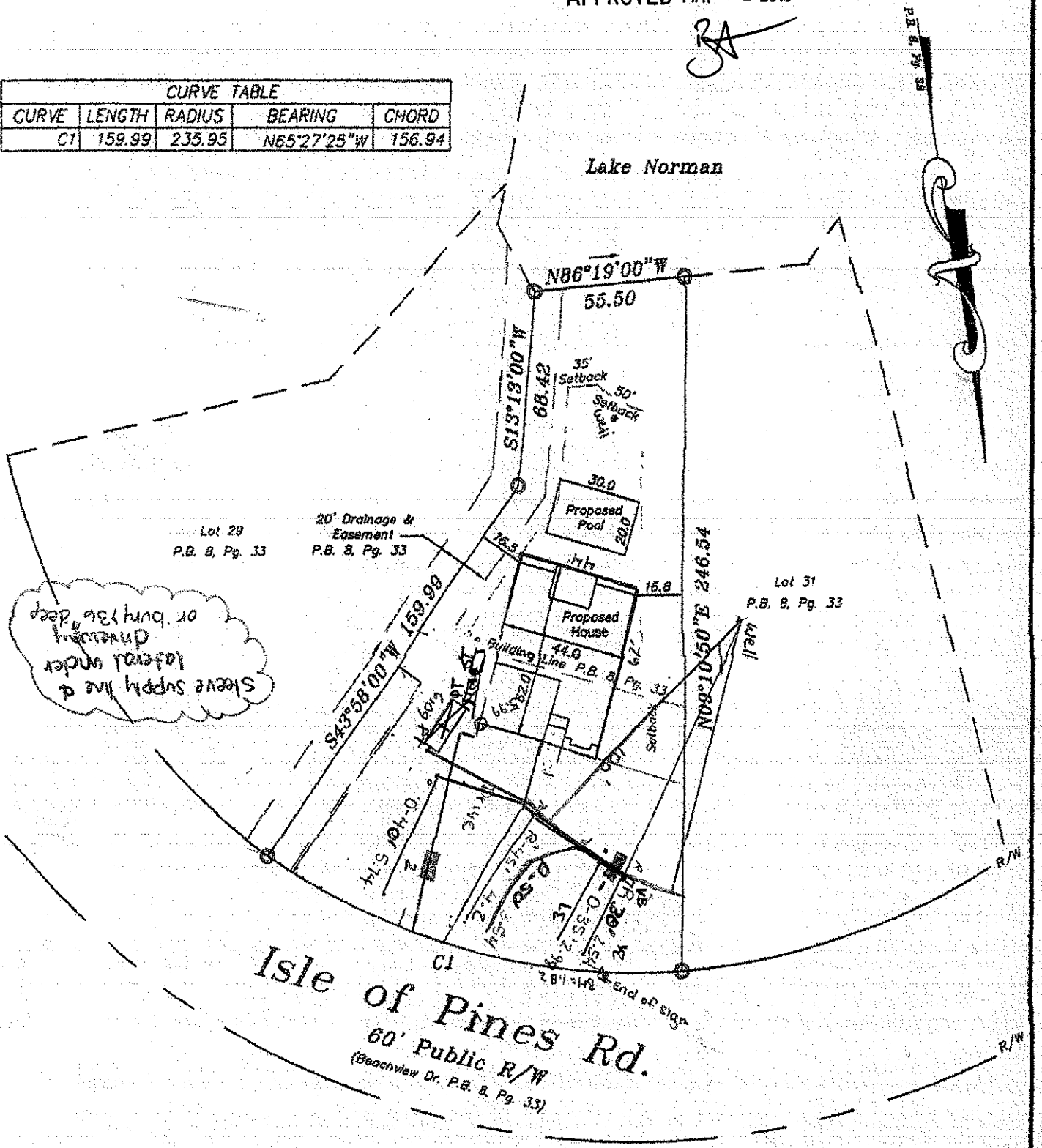
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CURVE TABLE				
CURVE	LENGTH	RADIUS	BEARING	CHORD
C1	159.99	235.95	N65°27'25"W	156.94



Notes:

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

2) Boundary information based on Plat Book: 8 at Page: 33 as recorded in the Iredell County Register of Deeds.

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

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

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

1 inch = 50 ft.

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582 Isle of Pines Fast Track Septic System Information

Number of Bedrooms	3
Basement or Crawl	**Crawl Space/Slab**
Design Flow (gpd)	360
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
No. Lines	5 (See Table)
Minimum Linear Feet	200
Total Linear Feet	200
Trench Width	2' min.
Trench Spacing	8' min.
Trench Depth (low side)	30"
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	22 gpm
Elevation head	Approx: 9.55 ft
Pressure head	3 ft
Friction head	1.0 ft
20% Contingency	2.71 ft
Total Head	16.26 ft
Pump Requirements	22 gpm @ 16.3' of head To be designed by installer.
Maximum Dosing Volume	158.4 gal -2.3 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	**Exempt**
Total Linear Feet	xxx
Repair LTAR	

***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.**

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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	System	Red	LPPPBPS	30 endfed	2.54	6	6	1 per panel	5/32"
2	System	Orange	LPPPBPS	35 endfed	2.98	8	8	1 per panel	5/32"
3	System	Pink	LPPPBPS	50 endfed	3.54	11	11	1 per panel	5/32"
4	System	Red	LPPPBPS	45 endfed	4.2	10	10	1 per panel	5/32"
5	System	Orange	LPPPBPS	40 endfed	5.74	9	9	1 per panel	5/32"
						Total: 44	Total: 44 (1 in each panel turned up)		
				Total System: 200'					
				Total Repair: xxx'					

Tank	Red	1000 gal (2 compartment)	
Pump Tank	Red	1000 gal.	6.09
House	orange		5.99

Note: **Tanks and Distribution devices can be altered at the ICHD's discretion**
Rod Readings should be verified by installer before installation
Septic area a very tight fit - use caution during installation

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BA

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:

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

OWNER: David Ritchie
ADDRESS: 19010 Lochcarron Ln
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: 582 Isle of Pines Mooresville

APPLICATION DATE
DATE EVALUATED: 4/21/16
PROPERTY SIZE:
PROPERTY RECORDED:

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	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
1	L 3-5%	0-12	Fill						0.3
		12-16	WK SBK SL	FR NS/NP	Br				
		16-32	MO SBK C	FR SS/SP	R, C Sap				
		32-64	WK SBK C	"	R, C/M Sap				
2	L	0-27	WK SBK CL	FR SS/SP	R, C Sap				0.35
		27-72	MA L Sap	↓	multi				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)	LP DD BDS	exempt
Site LTAR	0.3	repair

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: KMS
OTHER(S) PRESENT: ELH

COMMENTS:

Updated February 2014