



**Improvement Permit for Wastewater Systems**  
 Article II - Chapter 130A of the NC General Statutes  
**CHATHAM COUNTY PUBLIC HEALTH DEPARTMENT**  
**DIVISION OF ENVIRONMENTAL HEALTH**  
 80 EAST ST., P.O. BOX 130 - PITTSBORO, NC 27312-0130  
 PHONE 919-542-8208 / FAX 919-542-8288  
[www.chathamnc.org/environmentalhealth](http://www.chathamnc.org/environmentalhealth)

**Expiration Date: December 05, 2024**

Permit Number: PREH201908360

**Owner:** KARELIAN HOMES INC  
**911 Address:** TBD Anneliis Ln, SILER CITY, NC 27344

**New**

**Parcel Number:** 60065

**Subdivision Name:** Lane at Cattail Creek

**Subdivision Lot:** 52

An Improvement Permit is issued to KARELIAN HOMES INC for a 2.339 acre site located at TBD Anneliis Ln, SILER CITY, NC 27344 in Chatham County. It is specifically issued for the following facility:

**Facility:** Single Family Dwelling

**Number of Bedrooms:** 3 **Max Number of Occupants:** 6

**Type of Wastewater:** Domestic

**Initial System Type:** III-B **Description:** 300' x 3' x 12" downhill slope side At Grade Accepted

**Type of System:** Pump to At grade accepted

**Design Flow:** 360 EGPD **Application Rate:** 0.3 GPD/ft

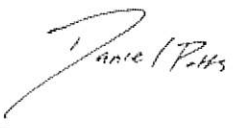
**Size Tank(s) with Riser(s) and Effluent Filter:** ST 1000 Gal PT 1000 Gal

**Nitrification Line:** Length: 300 Ft Width: 3 Ft Max Depth: 12"  
 (on Contour in approved septic area; sch. 40 PVC required over step-downs)

**Repair System Type:** Pump to At grade accepted  
**Special Conditions:** Pressure manifold design required for Construction Authorization. Trench depth 12 in on downhill slope side, 6 in of cover required over septic area.

- A site plan showing specific location of the facility, the site of the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.
  - Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams and stepdowns.
  - This permit is valid for **five years** but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed.
  - The Improvement Permit shall not be affected by change in ownership.
  - A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.
- THIS IS NOT AN AUTHORIZATION TO INSTALL.**

Issued by:

  
 Daniel Potts

Date: 12/05/2019

NC Registration #: 2819

Parcel: 60065

Owner: Karelian Homes Inc

IP Lot 52

Initial Pump to At-grade accepted

Approximate Location Centerline of Creek

Approximate Location 50' Riparian Buffer

Proposed 60' x 60' Home

Repair Pump to At grade accepted

Approximate Location 50' Riparian Buffer

PT ST

Drive

**Legend**

-  Approved Well Area
-  Approved System Area
-  Pond/Lake
-  Parcels



1 inch equals 70 feet



Author: *Daniel Folks*

Date: *1/22/2020*





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[www.chathamnc.org/environmentalhealth](http://www.chathamnc.org/environmentalhealth)

**Expiration Date: December 05, 2024**

Permit Number: PREH201908361

**New**

**Owner:** KARELIAN HOMES INC  
**911 Address:** TBD Anneliis Ln, SILER CITY, NC 27344

**Parcel Number:** 60065      **Subdivision Name:** Lane at Cattail Creek      **Subdivision Lot:** 53

An Improvement Permit is issued to KARELIAN HOMES INC for a 3.345 acre site located at TBD Anneliis Ln, SILER CITY, NC 27344 in Chatham County. It is specifically issued for the following facility:

**Facility:** **Single Family Dwelling**

Number of Bedrooms: 3	Max Number of Occupants: 6
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**Type of Wastewater:** **Domestic**

Initial System Type: III-B	Description: 300' x 3' x 12" (downhill slope side) At Grade Accepted
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**Type of System:** **Pump to At grade accepted**

Design Flow: 360 EGPD	Application Rate: 0.3 GPD/ft
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Size Tank(s) with Riser(s) and Effluent Filter:	ST 1000 Gal	PT 1000 Gal
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<b>Nitrification Line:</b> Length: 300 Ft	Width: 3 Ft	Max Depth: 12 In
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

**Repair System Type:** **Pump to At grade accepted**

**Special Conditions:** Pressure manifold design required before Construction Authorization. Trench depth 12 in on the downhill slope side. 6 in of cover required over the septic area.

- A site plan showing specific location of the facility, the site of the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.
- Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams and stepdowns.
- This permit is valid for **five years** but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed.
- The Improvement Permit shall not be affected by change in ownership.
- A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.

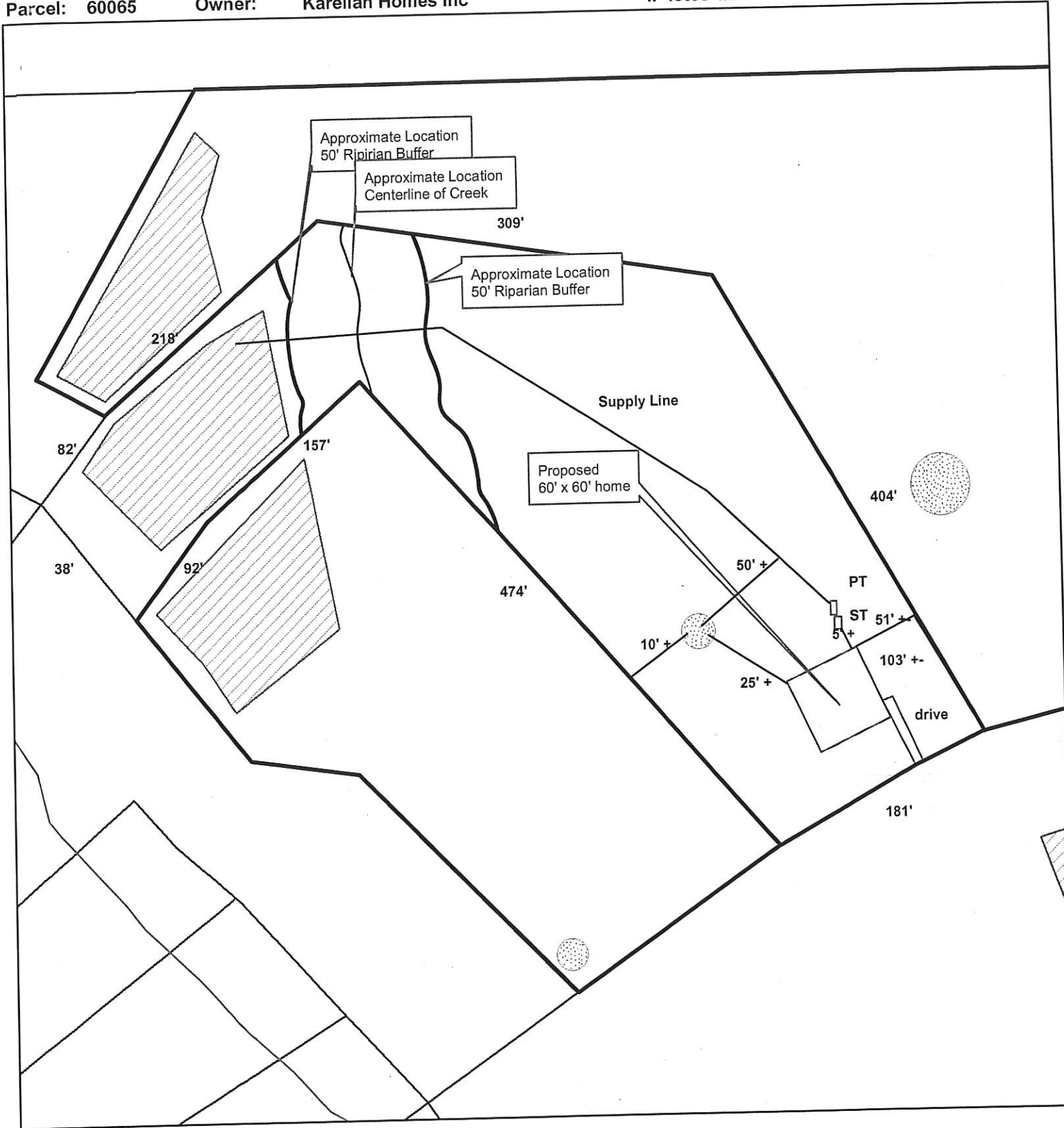
**THIS IS NOT AN AUTHORIZATION TO INSTALL.**

Issued by:






Date: 12/05/2019

NC Registration #: 2819

\_\_\_\_\_  
 Daniel Potts

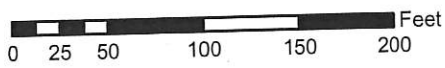


**Legend**

-  Stream/River
-  Approved Well Area
-  Approved System Area
-  Pond/Lake
-  Parcels



1 inch equals 100 feet



Author: *David Folts*  
 Date: *1/30/2023*



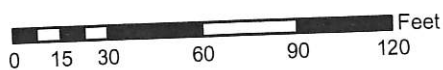


**Legend**

- Stream/River
- Approved Well Area
- Approved System Area
- Pond/Lake
- Parcels



1 inch equals 60 feet



Author: *Janet Polks*  
 Date: *4/20/2020*



**Improvement Permit for Wastewater Systems**  
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[www.chathamnc.org/environmentalhealth](http://www.chathamnc.org/environmentalhealth)

**Expiration Date: December 23, 2024**

Permit Number: PREH201908363

**New**

**Owner:** KARELIAN HOMES INC  
**911 Address:** TBD Anneliis Ln, SILER CITY, NC 27344

**Parcel Number:** 60065      **Subdivision Name:** Lane at Cattail Creek      **Subdivision Lot:** 54

An Improvement Permit is issued to KARELIAN HOMES INC for a 4.345 acre site located at TBD Anneliis Ln, SILER CITY, NC 27344

in Chatham County. It is specifically issued for the following facility:

**Facility:** Single Family Dwelling

Number of Bedrooms: 3	Max Number of Occupants: 6
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**Type of Wastewater:** Domestic

Initial System Type: III-B	Description 300' x 3' x 12" (downhill slope side) At Grade Accepted
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**Type of System:** Pump to At grade accepted

Design Flow: 360 EGPD	Application Rate: 0.3 GPD/ft
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Size Tank(s) with Riser(s) and Effluent Filter:	ST 1000 Gal	PT 1000 Gal
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<b>Nitrification Line:</b> Length: 300 Ft	Width: 3 Ft	Max Depth: 12 In	
(on Contour in approved septic area; sch. 40 PVC required over step-downs)			

**Repair System Type:** Pump to At grade accepted

**Special Conditions:** Pressure manifold design required for Construction Authorization. Trench depth 12 in on the downhill slope side. 6 in of cover required over the septic field.

- A site plan showing specific location of the facility, the site of the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.
- Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams and stepdowns.
- This permit is valid for **five years** but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed.
- The Improvement Permit shall not be affected by change in ownership.
- A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.

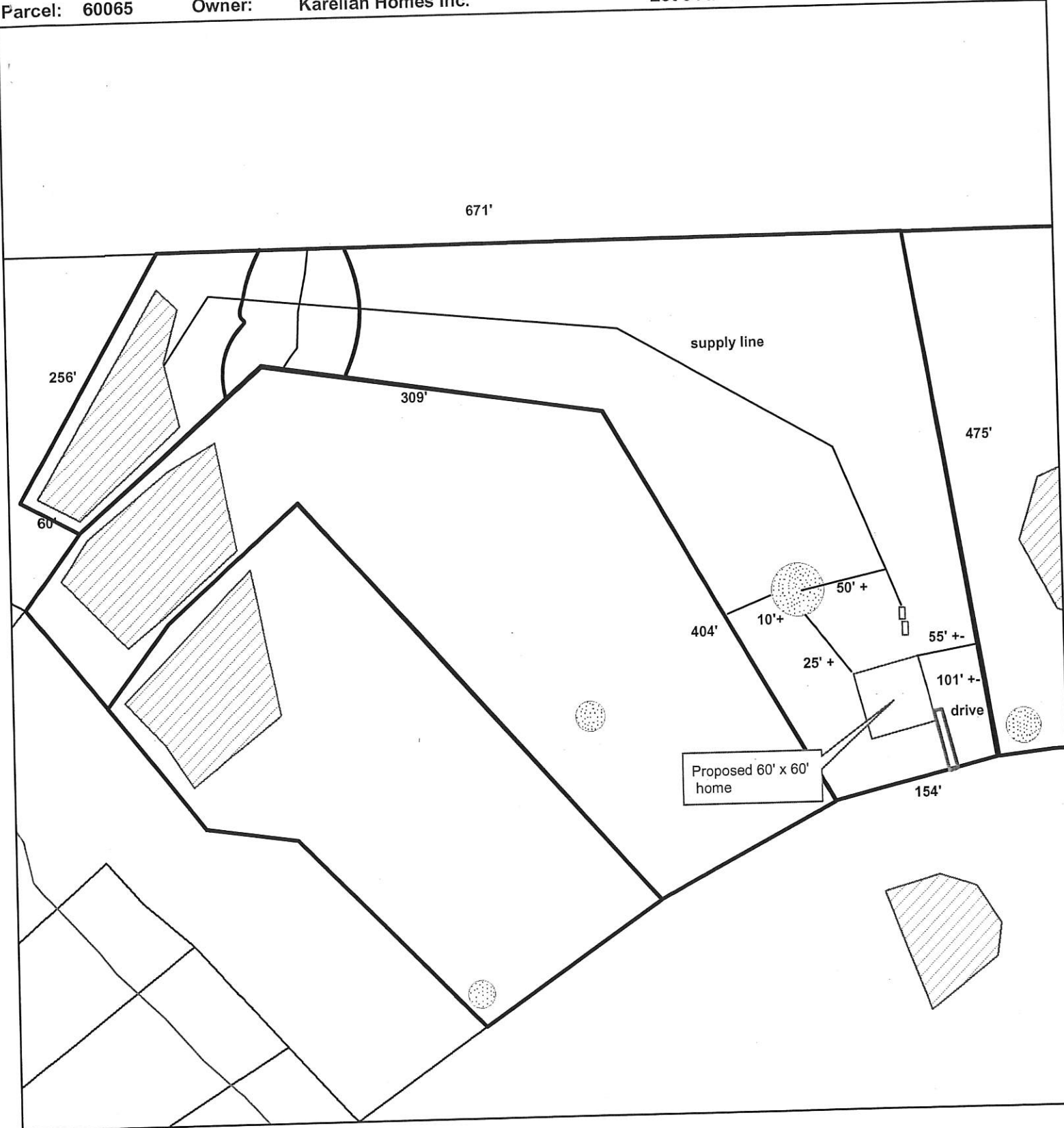
**THIS IS NOT AN AUTHORIZATION TO INSTALL.**

Issued by:






\_\_\_\_\_  
 Daniel Potts

Date: 12/23/2019

NC Registration #: 2819

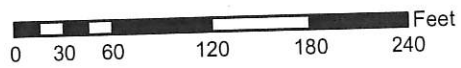


**Legend**

-  Stream/River
-  Approved Well Area
-  Approved System Area
-  Pond/Lake
-  Parcels

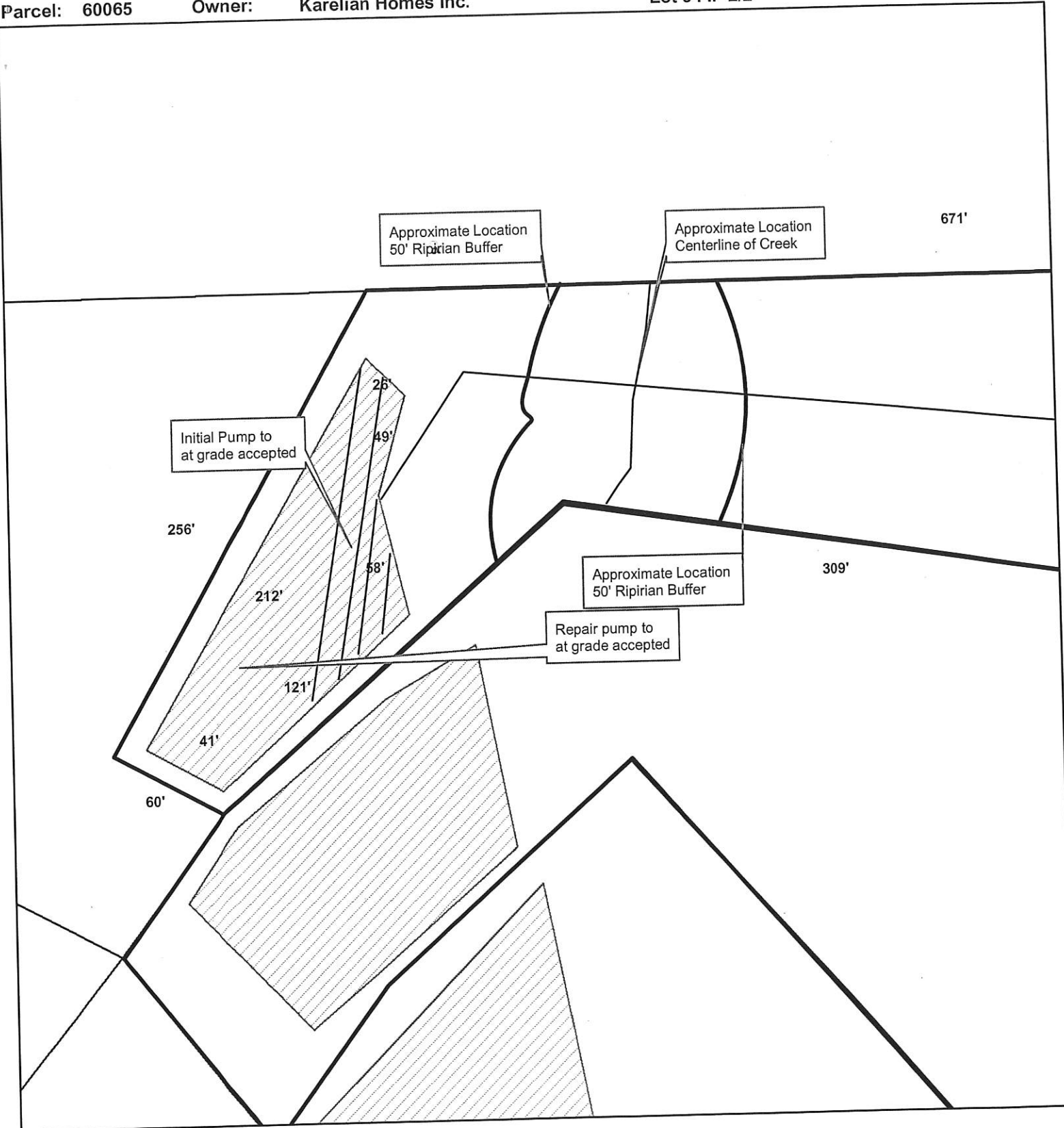


1 inch equals 117 feet



Author: *Janet Potts*  
 Date: *1/30/2020*



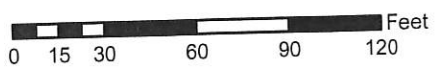


**Legend**

- Stream/River
- Approved Well Area
- Approved System Area
- Pond/Lake
- Parcels



1 inch equals 62 feet



Author: Janell Potts

Date: 1/30/2020







**Improvement Permit for Wastewater Systems**  
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**CHATHAM COUNTY PUBLIC HEALTH DEPARTMENT**  
**DIVISION OF ENVIRONMENTAL HEALTH**  
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 PHONE 919-542-8208 / FAX 919-542-8288  
[www.chathamnc.org/environmentalhealth](http://www.chathamnc.org/environmentalhealth)

**Expiration Date: November 03, 2029**

Permit Number: PREH201908370

**New**

**Owner:** KARELIAN HOMES INC

**911 Address:** TBD ANNELIIS LN. SILER CITY, NC 27344

**Parcel Number:** 60065

**Subdivision Name:** Lane at Cattail Creek

**Subdivision Lot:** 62

An Improvement Permit is issued to KARELIAN HOMES INC for a site located on a 1.5 acre parcel on ANNELIIS LN. SILER CITY, NC 27344 in Chatham County. It is specifically issued for the following facility:

**Facility:** Single Family Dwelling

Number of Bedrooms: 3	Max Number of Occupants: 6
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**Type of Wastewater:** Domestic

Initial System Type: Illg	Description: Accepted System
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**Type of System:** Accepted

Design Flow: 360 EGPD	Application Rate: 0.3 GPD/ft
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Size Tank(s) with Riser(s) and Effluent Filter:	ST 1000 Gal	PT Gal
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<b>Nitrification Line:</b> Length: 300 ft.	Width: 3 ft.	Max Depth: 24 in.
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

**Repair System Type:** Accepted

**Special Conditions:**

- A site plan showing specific location of the facility, the site of the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.
- Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams and stepdowns.
- This permit is valid for **five years** but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed.
- The Improvement Permit shall not be affected by change in ownership.
- A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.

**THIS IS NOT AN AUTHORIZATION TO INSTALL.**

Issued by:

Date: 11/14/2019

NC Registration #: 1912

Carl Kivett





**Improvement Permit for Wastewater Systems**  
 Article II - Chapter 130A of the NC General Statutes  
**CHATHAM COUNTY PUBLIC HEALTH DEPARTMENT**  
**DIVISION OF ENVIRONMENTAL HEALTH**  
 80 EAST ST., P.O. BOX 130 - PITTSBORO, NC 27312-0130  
 PHONE 919-542-8208 / FAX 919-542-8288  
[www.chathamnc.org/environmentalhealth](http://www.chathamnc.org/environmentalhealth)

**Expiration Date: November 15, 2024**

Permit Number: PREH201908371

**New**

**Owner:** KARELIAN HOMES INC

**911 Address:** TBD ANNELIIS LN, SILER CITY, NC 27344

**Parcel Number:** 60065

**Subdivision Name:** LANE AT CATTAIL CREEK

**Subdivision Lot:** 63

An Improvement Permit is issued to KARELIAN HOMES INC for a site on a 2.175 acre parcel located at TBD ANNELIIS LN, SILER CITY, NC 27344 in Chatham County. It is specifically issued for the following facility:

**Facility:** Single Family Dwelling

Number of Bedrooms: 3	Max Number of Occupants: 6
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**Type of Wastewater:** Domestic

Initial System Type: V	Description: Pretreatment subsurface drip irrigation - Plans and layout required for CA
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**Type of System:** Pretreatment drip

Design Flow: 360 EGD	Application Rate: 0.15 GPD/ft
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Size Tank(s) with Riser(s) and Effluent Filter:	ST Gal PER PLANS	PT Gal PER PLANS
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<b>Nitrification Line:</b> Length: 1,200 ft.	Width: 2 in.	Max Depth: 6 in.
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

**Repair System Type:** Pretreatment drip per approval IWWS-2007-1-R2

**Special Conditions:** Aerobic subsurface drip irrigation system per approval IWWS-2007-1-R2. Design and approval required prior to issuance of CA; professional engineer or authorized designer required. Preconstruction meeting with designer and installer required prior to beginning any site modifications or construction of system. Professional engineer or authorized designer must certify installation in writing. Subsurface operator required.

- A site plan showing specific location of the facility, the site of the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.
- Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams and stepdowns.
- This permit is valid for **five years** but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed.
- The Improvement Permit shall not be affected by change in ownership.
- A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.

**THIS IS NOT AN AUTHORIZATION TO INSTALL.**

Issued by:

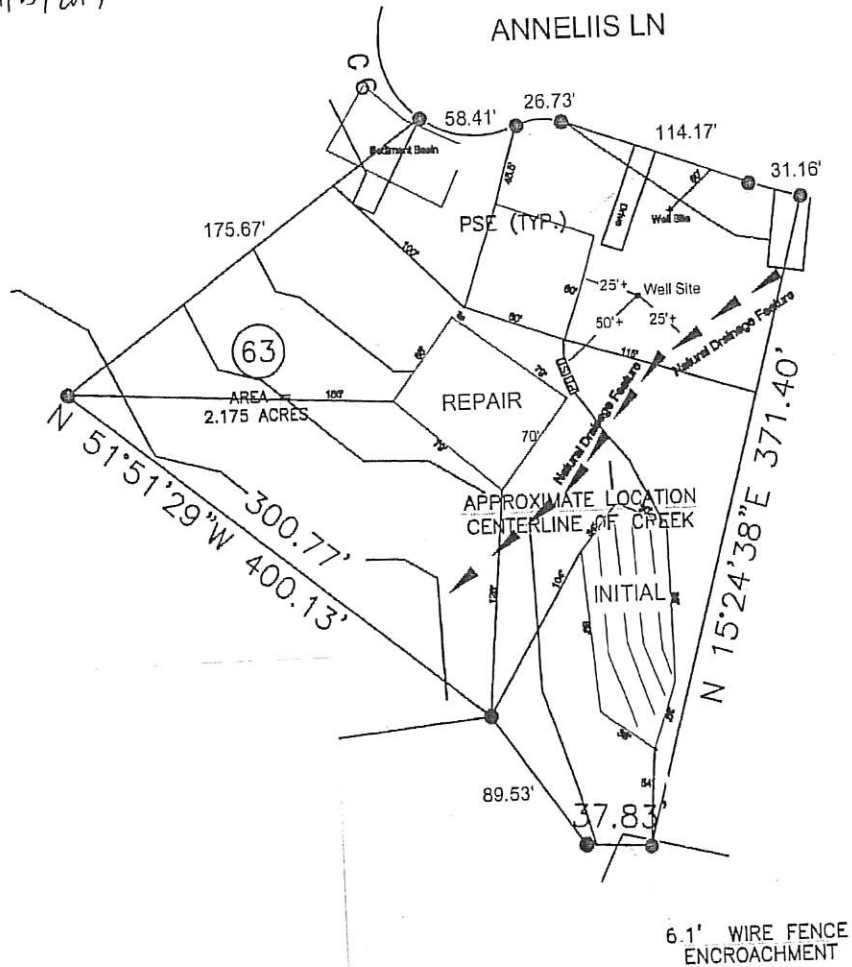
\_\_\_\_\_  
 James Tiger

Date: 11/27/2019

NC Registration #: 2492

# Lane at Cattail Creek Lot 63 Improvement Permit Site Plan

*John A. Tye, P.E.*  
11/15/2019



- \*Keep Tanks and Drain Lines 10' from property lines.
- \*Not a Survey
- \*Not a guarantee of a septic permit.
- \*Keep supply lines >5' from property lines.
- \*Some lines are flagged longer in the field than lengths indicated above.

GRAPHIC SCALE  
1" = 100'



Central Carolina Soil Consulting, PLLC  
1900 South Main Street, Suite 110  
Wake Forest, North Carolina 27587  
Phone (919)569-6704 Fax (919)569-6703

4-Bedroom Septic Layout  
Lot 63 Cattail Creek Subdivision  
Chatham County, North Carolina

Job# : 153-B
Drawn By : JH
Date : 10/25/2019
Revision:



**Improvement Permit for Wastewater Systems**  
 Article II - Chapter 130A of the NC General Statutes  
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**DIVISION OF ENVIRONMENTAL HEALTH**  
 80 EAST ST., P.O. BOX 130 - PITTSBORO, NC 27312-0130  
 PHONE 919-542-8208 / FAX 919-542-8288  
[www.chathamnc.org/environmentalhealth](http://www.chathamnc.org/environmentalhealth)

Permit Number: PREH201908373

**Expiration Date: December 23, 2024**

**New**

**Owner:** KARELIAN HOMES INC  
**911 Address:** TBD Anneliis Ln, SILER CITY, NC 27344

*DP*  
*Revised 1/10/2020*  
*64*  
**Subdivision Lot: 65**

**Parcel Number:** 60065      **Subdivision Name:** Lane at Cattail Creek

An Improvement Permit is issued to KARELIAN HOMES INC for a 4.636 acre site located at TBD Anneliis Ln, SILER CITY, NC 27344 in Chatham County. It is specifically issued for the following facility:

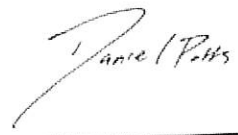
<b>Facility: Single Family Dwelling</b>		
Number of Bedrooms: 3	Max Number of Occupants: 6	
Type of Wastewater: <b>Domestic</b>		
Initial System Type: III-B	Description: 300' x 3' x 16" Pump to Accepted trench on pressure manifold	
Type of System: <b>Pump to Accepted</b>		
Design Flow: 360 EGPD	Application Rate: 0.3 GPD/ft	
Size Tank(s) with Riser(s) and Effluent Filter:	ST 1000 Gal	PT 1000 Gal
<b>Nitrification Line:</b> Length: 300 Ft	Width: 3 Ft	Max Depth: 16 In
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

Repair System Type: Pre- Treatment drip per approval IWWS-2007-1-R2  
**Special Conditions:** Trench depth 16 in on the downhill slope side. Pressure Manifold design required before issuance of CA. 6 inches of soil required over the septic area.

- A site plan showing specific location of the facility, the site of the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.
- Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams and stepdowns.
- This permit is valid for **five years** but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed.
- The Improvement Permit shall not be affected by change in ownership.
- A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.

**THIS IS NOT AN AUTHORIZATION TO INSTALL.**

Issued by:

  
 Daniel Potts

Date: 12/23/2019

NC Registration #: 2819

Parcel: 60065

Owner: Karelian Homes

Lot 64 IP

Initial Pump to At Grade Accepted on a Pressure Manifold

Proposed House 60' x 60'

Repair Subsurface Drip

Approximate Location 50' Voluntary Buffer

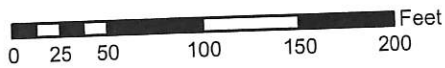
Approximate Location 50' Riparian Buffer

Approximate Location Centerline of Creek

Annellis Ln



1 inch equals 100 feet



Legend

- Approved Well Area
- Approved System Area
- Pond/Lake

Author: *David Polts*

Date: *1/30/2020*





**Improvement Permit for Wastewater Systems**  
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[www.chathamnc.org/environmentalhealth](http://www.chathamnc.org/environmentalhealth)

**Expiration Date: December 20, 2024**

Permit Number: PREH201908375

**New**

**Owner:** KARELIAN HOMES INC  
**911 Address:** TBD Anneliis Ln, SILER CITY, NC 27344

**Parcel Number:** 60065      **Subdivision Name:** Lane at Cattail Creek  
 1.958 ACRES      12/24/2020

*Revised DP  
 1/10/2020      66  
 Subdivision Lot: 67*

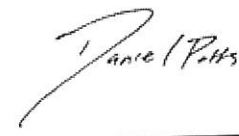
An Improvement Permit is issued to KARELIAN HOMES INC for a 2.062 acre site located at TBD Anneliis Ln, SILER CITY, NC 27344 in Chatham County. It is specifically issued for the following facility:

<b>Facility: Single Family Dwelling</b>		
Number of Bedrooms: 3	Max Number of Occupants: 6	
Type of Wastewater: Domestic		
Initial System Type: III-B	Description Pump to At Grade Low Profile Chambers 400' x 3' x 10"	
Type of System: Pump to At Grade Low Profile Chamber		
Design Flow: 360 EGPD	Application Rate: 0.3 GPD/ft	
Size Tank(s) with Riser(s) and Effluent Filter:	ST 1000 Gal	PT 1000 Gal
<b>Nitrification Line:</b> Length: 400 Ft	Width: 3 Ft	Max Depth: 10 In
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

Repair System Type: **Pre Treatment drip per approval IWWS-2007-1-R2**  
**Special Conditions:** Trench depth is 10 inches on the downhill slope side. 6 inches of soil required over the drain field area. Pressure Manifold design plan required before issuance of CA.

- A site plan showing specific location of the facility, the site of the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.
- Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams and stepdowns.
- This permit is valid for **five years** but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed.
- The Improvement Permit shall not be affected by change in ownership.
- A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.

**THIS IS NOT AN AUTHORIZATION TO INSTALL.**

Issued by:   
 Daniel Potts

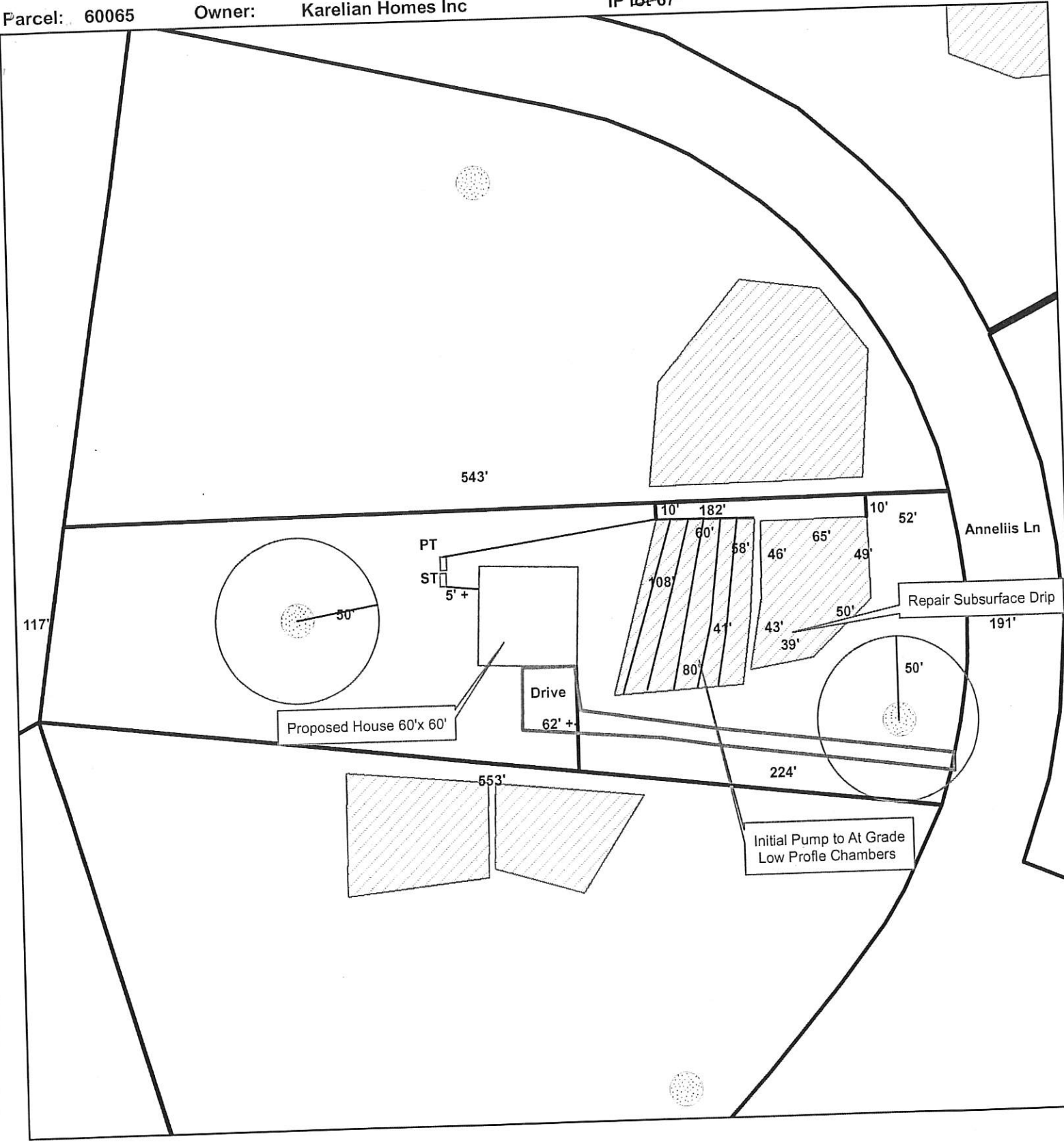
Date: 12/20/2019

NC Registration #: 2819





Parcel: 60065

Owner: Karelian Homes Inc

IP lot 67

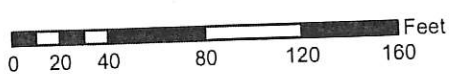


**Legend**

-  Stream/River
-  Approved Well Area
-  Approved System Area
-  Pond/Lake



1 inch equals 80 feet



Author: *Janet Parks PHUSE*  
 Date: *12/23/2019*







**Improvement Permit for Wastewater Systems**  
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[www.chathamnc.org/environmentalhealth](http://www.chathamnc.org/environmentalhealth)

Permit Number: PREH201908379

**Expiration Date: November 14, 2024**

New

Owner: KARELIAN HOMES INC  
 911 Address: TBD ANNELIIS LN. SILER CITY, NC 27344  
 Parcel Number: 60065 Subdivision Name: Lane at Cattail Creek

*Revised DP  
 1/10/2020  
 Subdivision Lot: 71*

An Improvement Permit is issued to KARELIAN HOMES INC for a site located on a 2.338 acre parcel on ANNELIIS LN. SILER CITY, NC 27344 in Chatham County. It is specifically issued for the following facility:

Facility: <b>Single Family Dwelling</b>	Max Number of Occupants: 6
Number of Bedrooms: 3	

Type of Wastewater: <b>Domestic</b>	Description Pump to At-Grade Accepted System with Pressure Manifold
Initial System Type: III-b	

Type of System: <b>At-Grade Accepted</b>
Design Flow: 360 EGPD Application Rate: 0.3 GPD/ft

Size Tank(s) with Riser(s) and Effluent Filter:	ST 1000 Gal	PT 1000 Gal
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Nitrification Line: Length: 300 ft.	Width: 3 ft.	Max Depth: 12 in.
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

Repair System Type: **Pump to Low Profile Chambers**

**Special Conditions:** 6 inches minimum soil cover required over system area.

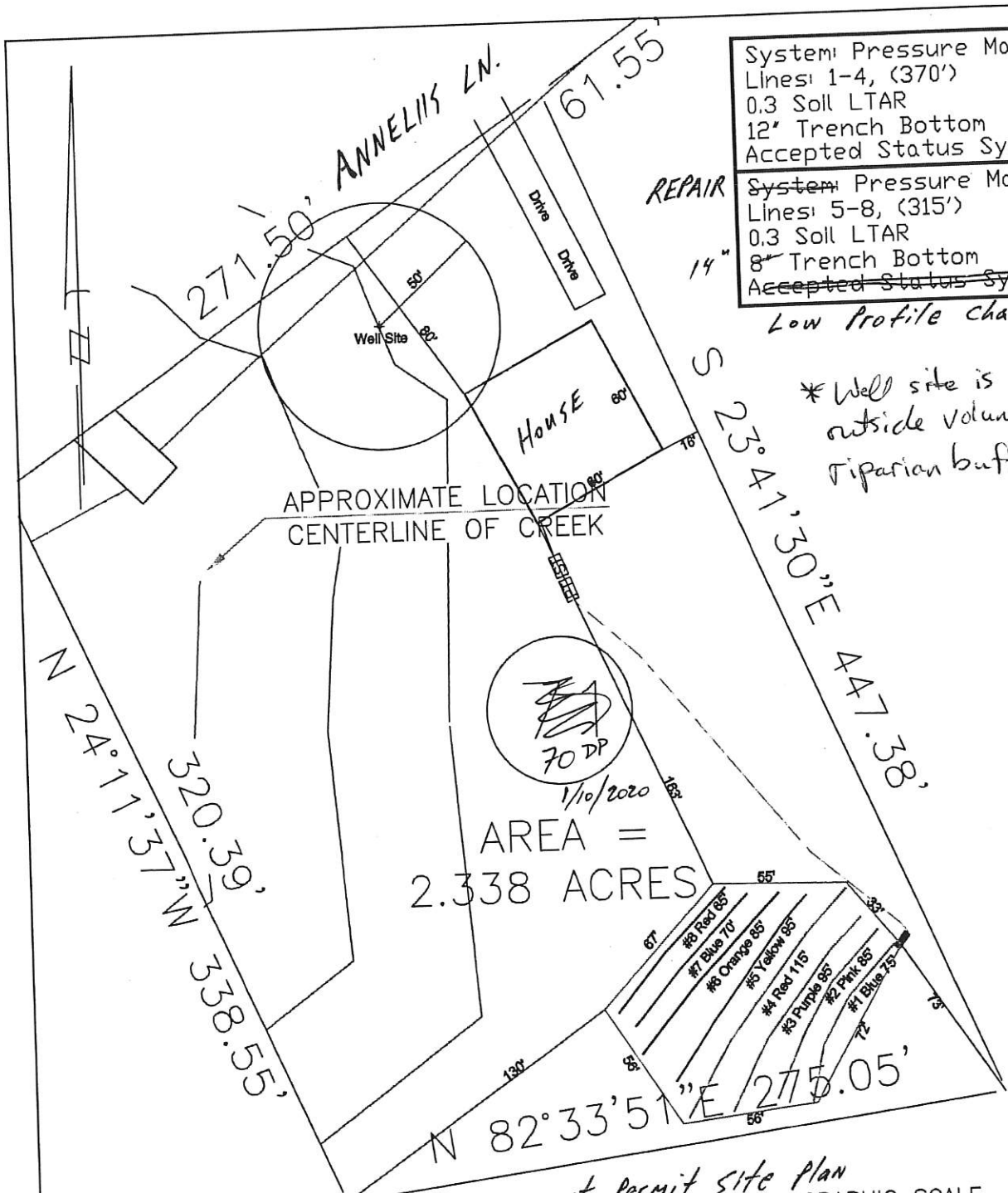
- A site plan showing specific location of the facility, the site of the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.
- Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams and stepdowns.
- This permit is valid for **five years** but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed.
- The Improvement Permit shall not be affected by change in ownership.
- A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.

**THIS IS NOT AN AUTHORIZATION TO INSTALL.**

Issued by: Carl Kivett  
 Carl Kivett

Date: 11/14/2019

NC Registration #: 1912



System: Pressure Manifold  
 Lines: 1-4, (370')  
 0.3 Soil LTAR  
 12" Trench Bottom  
 Accepted Status System

REPAIR

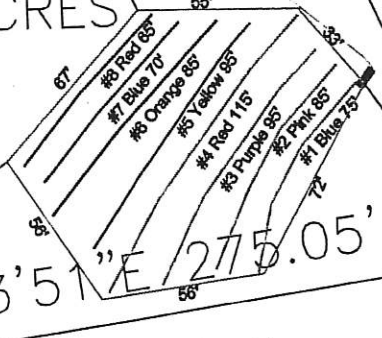
14"

System: Pressure Manifold  
 Lines: 5-8, (315')  
 0.3 Soil LTAR  
 8" Trench Bottom  
 Accepted Status System

Low Profile Chambers

\* Well site is  
 outside voluntary  
 riparian buffer

AREA =  
 2.338 ACRES



- \*Keep Tanks and Drain Lines 10' from property lines.
- \*Not a Survey
- \*Not a guarantee of a septic permit.
- \*Keep supply lines >5' from property lines.
- \*Some lines are flagged longer in the field than lengths indicated above.

Improvement Permit Site Plan

GRAPHIC SCALE

11/14/19 *Jann Carl Knitt*



Central Carolina Soil Consulting, PLLC  
 1900 South Main Street, Suite 110  
 Wake Forest, North Carolina 27587  
 Phone (919)569-6704 Fax (919)569-6703

3-Bedroom Sketch Layout  
 Lot 71 Cattail Creek Subdivision  
 Chatham County, North Carolina

Job# : 153-B
Drawn By : JH
Date : 10/25/2019
Revision: 00/00/2018