



Improvement Permit for Wastewater Systems
 Article II - Chapter 130A of the NC General Statues
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

Expiration Date: December 27, 2024

Permit Number: PREH201908362

New

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

Parcel Number: 60065 **Subdivision Name:** Lane at Cat Tail Creek **Subdivision Lot:** 55

An Improvement Permit is issued to KARELIAN HOMES INC for a 1.950 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	Description 400' x 3' x 10" At Grade Low Profile Chambers
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Type of System: At Grade Low Profile Chamber

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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Nitrification Line: Length: 400 Ft	Width: 3 Ft	Max Depth: 10 In
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

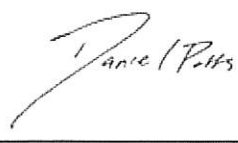
Repair System Type: Pump to Pressure Manifold At Grade Low Profile Chamber

Special Conditions: Trench depth 10" on the downhill slope side. Pump system may be required depending on final house location, if so a pressure manifold design is required prior to the issuance of the CA. 6 inches of soil required over the drainfield.

- 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.

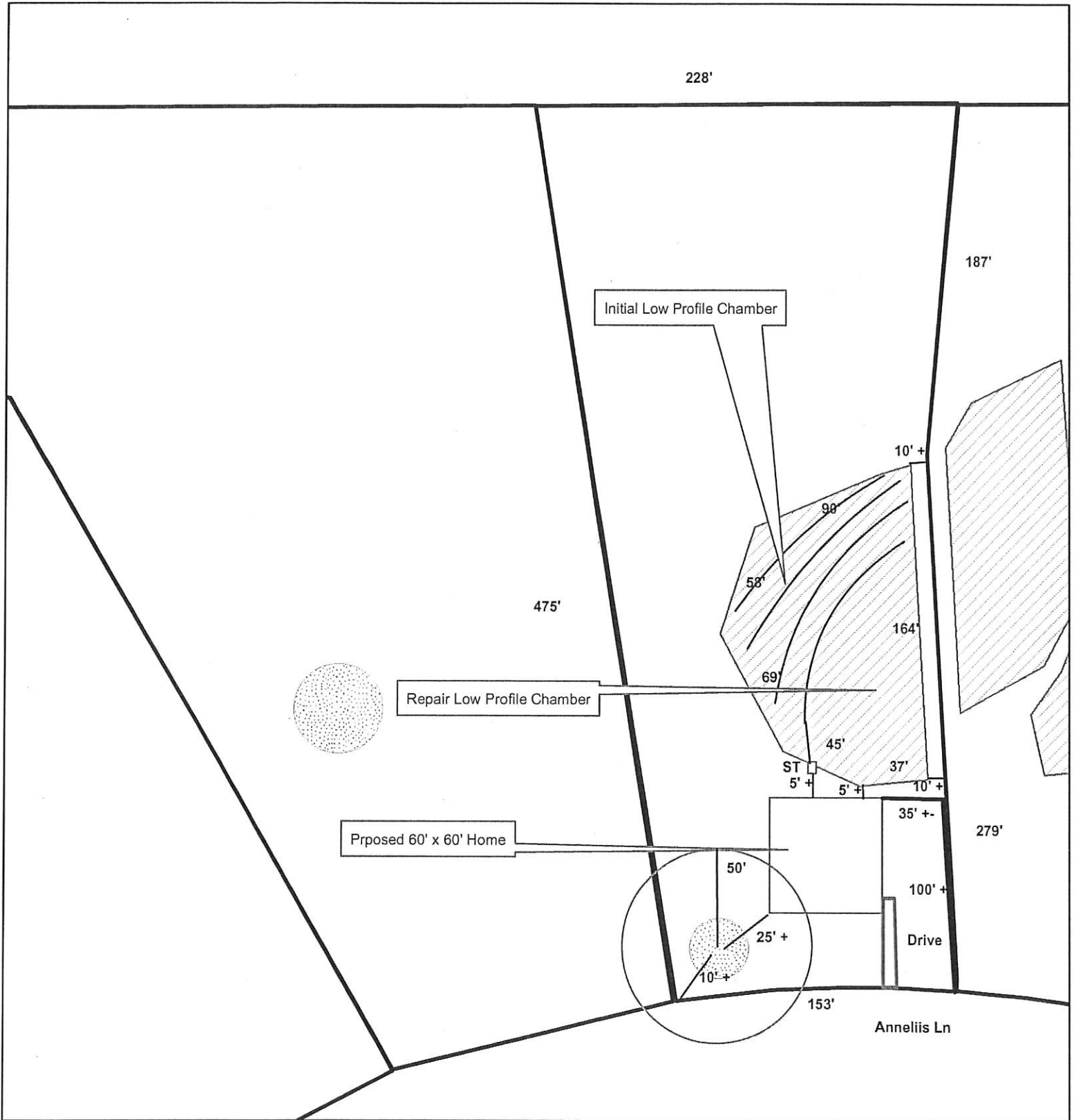
Issued by:



Daniel Potts

Date: 12/27/2019

NC Registration #: 2819

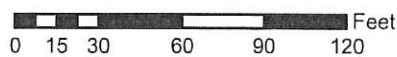


Legend

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



1 inch equals 70 feet



Author: James B. Bly

Date: 12/28/2009





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 PHONE 919-542-8208 / FAX 919-542-8288
www.chathamnc.org/environmentalhealth

Expiration Date: December 27, 2024

Permit Number: PREH201908364

New

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

Parcel Number: 60065 **Subdivision Name:** Lnae at Cat Tail Creek **Subdivision Lot:** 56

An Improvement Permit is issued to KARELIAN HOMES INC for a 3.146 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 400' x 3' x 10" Pump to Pressure Manifold At Grade Low Profile Chambers
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Type of System: Pump to Pressure Manifold At Grade Low Profile Chambers

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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Nitrification Line: 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 10 inches on the downhill slope side. Pressure manifold design required prior to the issuance of the CA. 6 inches of cover required over the drainfield

- 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.

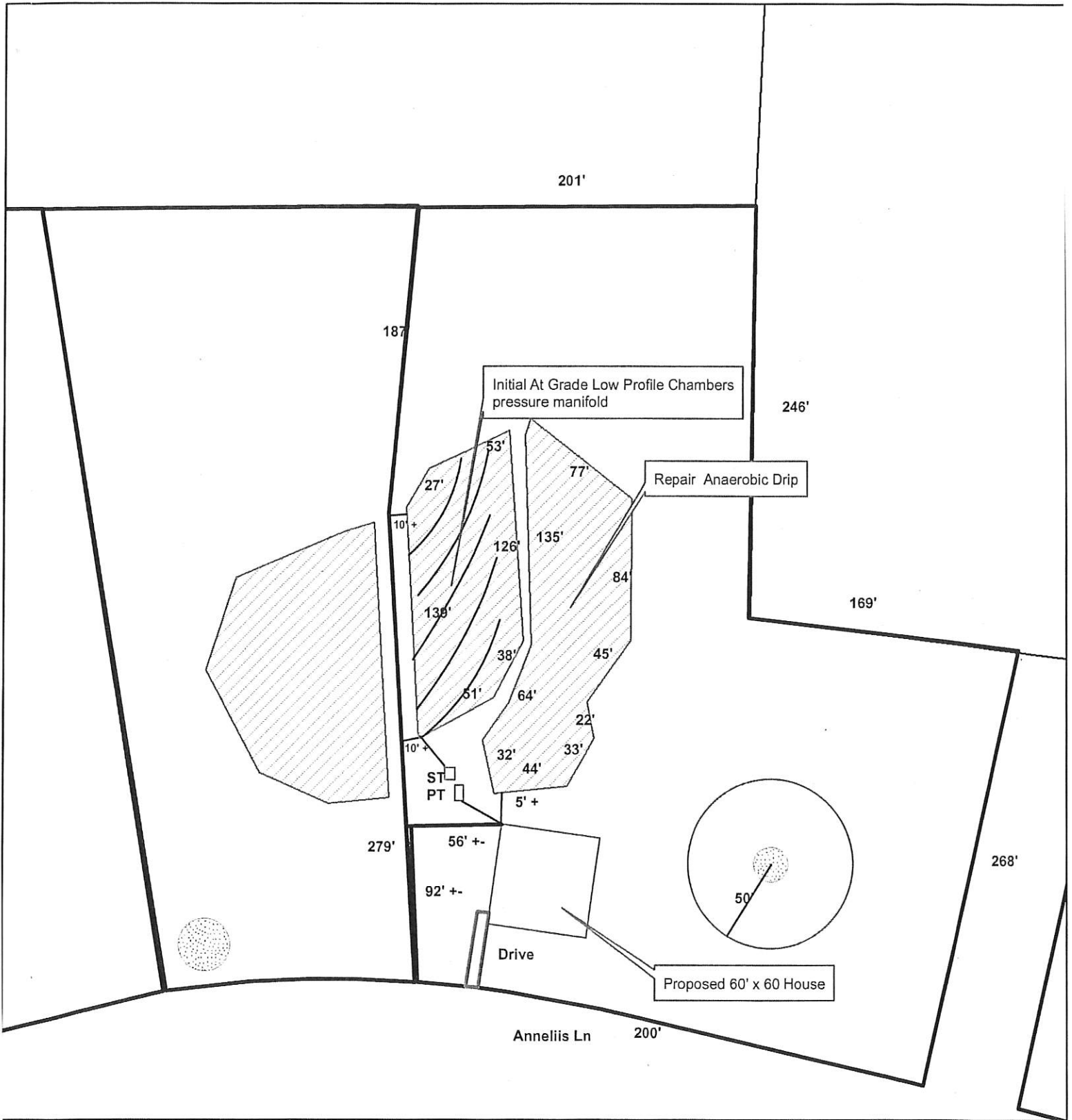
THIS IS NOT AN AUTHORIZATION TO INSTALL.

Issued by:

 Daniel Potts

Date: 12/27/2019

NC Registration #: 2819



Legend

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



1 inch equals 80 feet



Author: *T. Anne Polks* RCHSP

Date: *12/27/2019*





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www.chathamnc.org/environmentalhealth

Expiration Date: December 27, 2024

Permit Number: PREH201908365

New

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

Parcel Number: 60065 **Subdivision Name:** Lane At Cat Tail Creek **Subdivision Lot:** 57

An Improvement Permit is issued to KARELIAN HOMES INC for a 4.937 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	Description 300' x 3' x 13" At Grade Accepted
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Type of System: 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 Gal
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Nitrification Line: Length: 300 Ft	Width: 3 Ft	Max Depth: 13 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 13 inches on the downhill slope side. 6 Inches of soil required of the septic drain field. Pump may be required depending on final house location, if so then a pressure manifold design is required prior to the issuance of the 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.

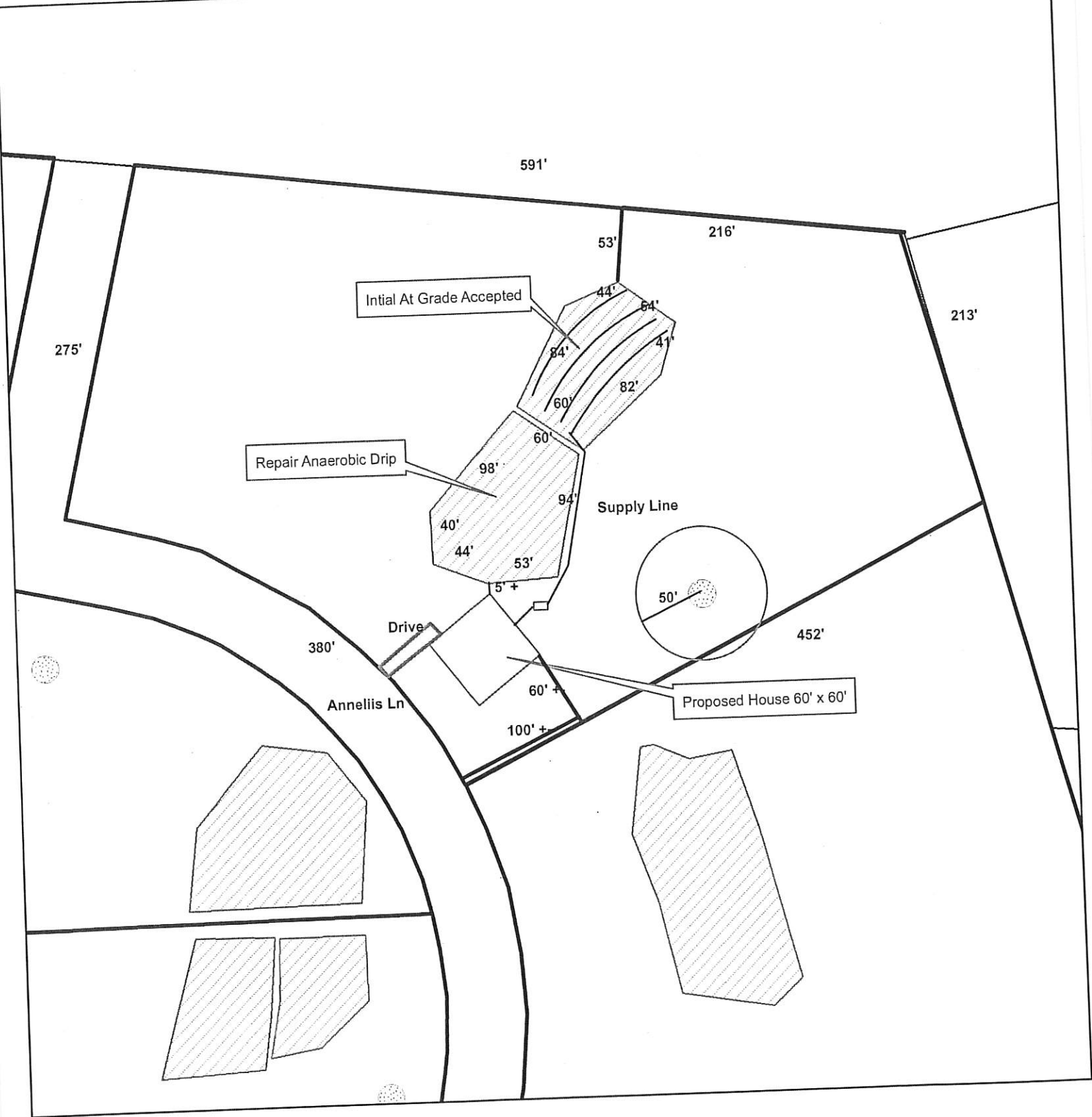
THIS IS NOT AN AUTHORIZATION TO INSTALL.

Issued by:

 Daniel Potts

Date: 12/27/2019

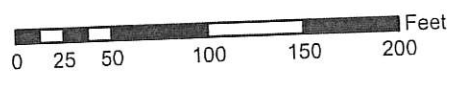
NC Registration #: 2819



- Legend**
- Stream/River
 - ⊘ Approved Well Area
 - ▨ Approved System Area
 - Pond/Lake
 - ▭ Parcels



1 inch equals 100 feet



Author: *Janet Potts*
 Date: *12/27/2019*





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Expiration Date: December 23, 2024

Permit Number: PREH201908366

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:** 58

An Improvement Permit is issued to KARELIAN HOMES INC for a 5.086 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" Pump to At Grade Accepted Pressure Manifold
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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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Nitrification Line: Length: 300'	Width: 3 Ft	Max Depth: 12"
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

Repair System Type: **Pump toAt Grade Accepted**

Special Conditions: Trench Depth 12" on the downhill slope side. 6 Inches of soil required of the drain field. Pressure Manifold design required prior to 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.

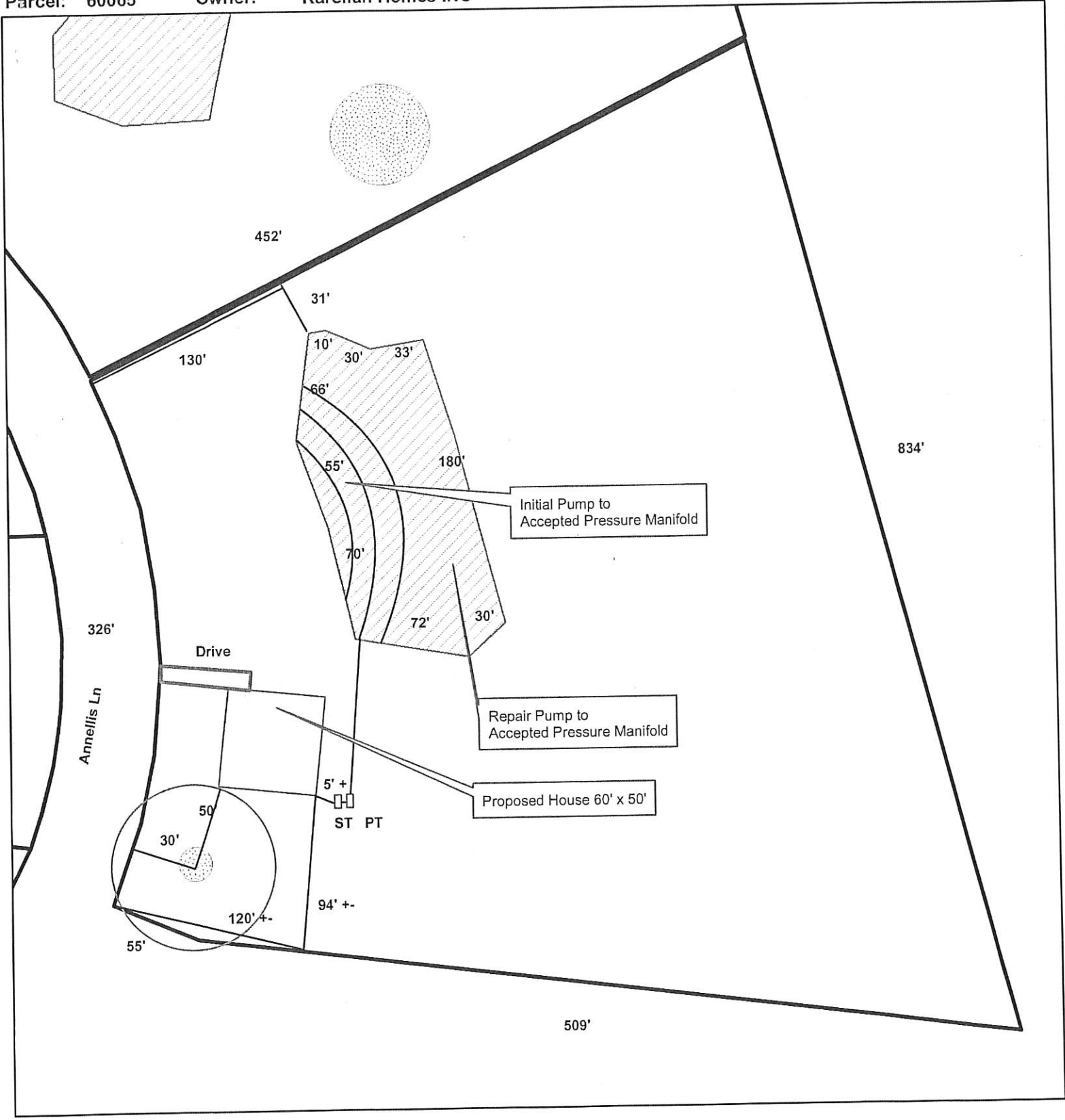
THIS IS NOT AN AUTHORIZATION TO INSTALL.

Issued by:

Daniel Potts

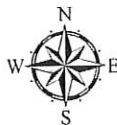
Date: 12/23/2019

NC Registration #: 2819

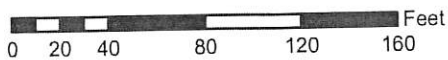


Legend

- Stream/River
- ApprovedWellArea
- ApprovedSystemArea
- Pond/Lake



1 inch equals 80 feet



Author: *David R. H.*

Date: *12/23/2017*





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 PHONE 919-542-8208 / FAX 919-542-8288
www.chathamnc.org/environmentalhealth

Expiration Date: November 15, 2024

Permit Number: PREH201908367

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: 59

An Improvement Permit is issued to KARELIAN HOMES INC for a 1.889 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	Description AT GRADE LOW PROFILE CHAMBERS 400' x 3' x 8"
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Type of System: AT GRADE LOW PROFILE CHAMBERS

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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Nitrification Line: Length: 400 ft	Width: 3 ft	Max Depth: 8" in
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

Repair System Type: AT GRADE LOW PROFILE CHAMBERS

Special Conditions: Trench bottom 8 inches *downhill* slope side, 6" of soil 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.
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- A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.

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Issued by:

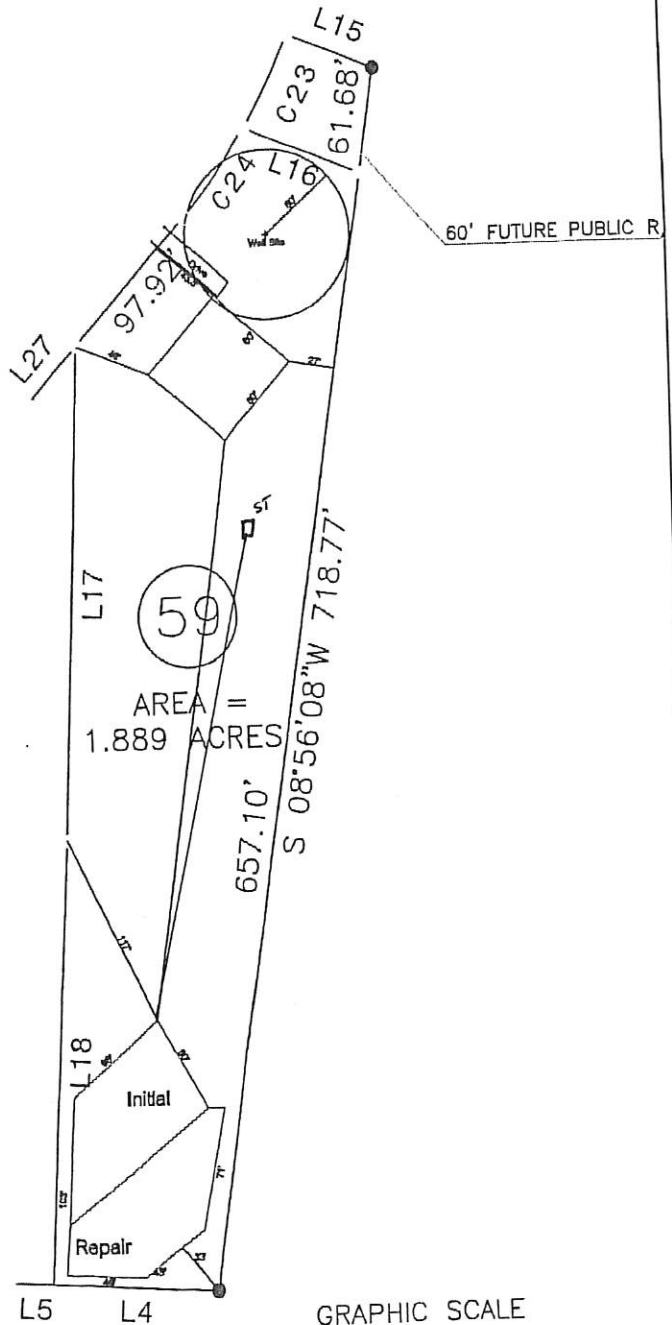
Daniel Potts

Date: 11/15/2019

NC Registration #: 2819

IP Site plan
 Lane at Cattail creek
 lot 59

Daniel Polks
 11/15/2017



60' FUTURE PUBLIC R

- *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

3-Bedroom Septic Layout
 Lot 59 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
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

Expiration Date: November 14, 2024

Permit Number: PREH201908368

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: 60

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: IIIg	Description: Shallow Accepted
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Type of System: Shallow 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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Nitrification Line: Length: 300 ft.	Width: 3 ft.	Max Depth: 18 in.
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

Repair System Type: **Low Profile Chambers**

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.

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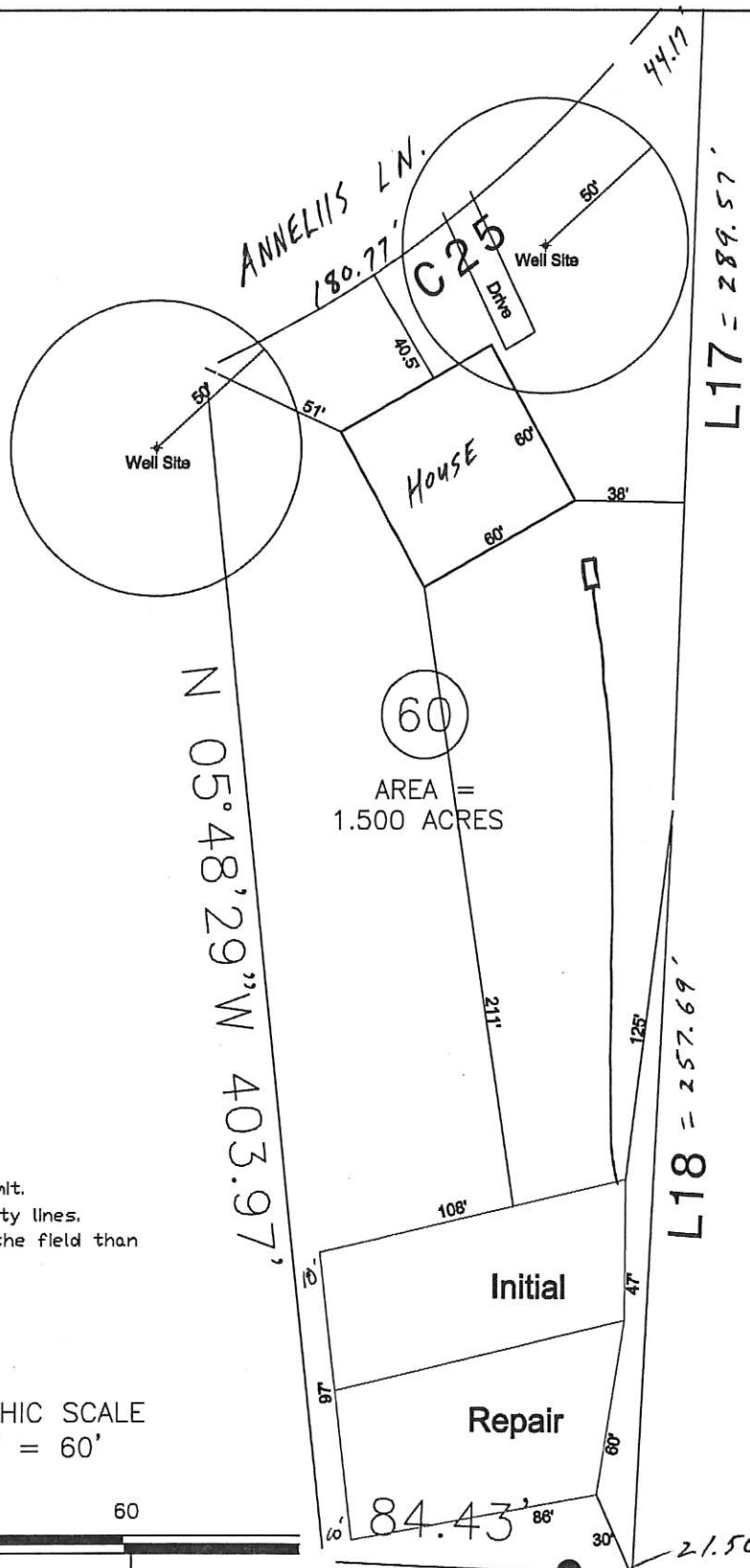
Issued by:

James Carl Kivett

Date: 11/14/2019

NC Registration #: 1912

 Carl Kivett



- *Keep Tanks and Drain lines 10'
- *Not on property lines.
- *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 11/14/19

GRAPHIC SCALE
 1" = 60'

James Carl Kirtt



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 Sketch Layout
 Lot 80 Cattail Creek Subdivision
 Chatham County, North Carolina

L5	Job# 153-B
	Drawn By JH
	Date 10/25/2019
	Revision 00/00/2018

pg. 1 of 1



Improvement Permit for Wastewater Systems
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 PHONE 919-542-8208 / FAX 919-542-8288
www.chathamnc.org/environmentalhealth

Expiration Date: November 14, 2024

Permit Number: PREH201908369

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: 61

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: Shallow Accepted
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Type of System: **Shallow 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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Nitrification Line: Length: 300 ft.	Width: 3 ft.	Max Depth: 18 in.
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

Repair System Type: **Low Profile Chambers**

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.
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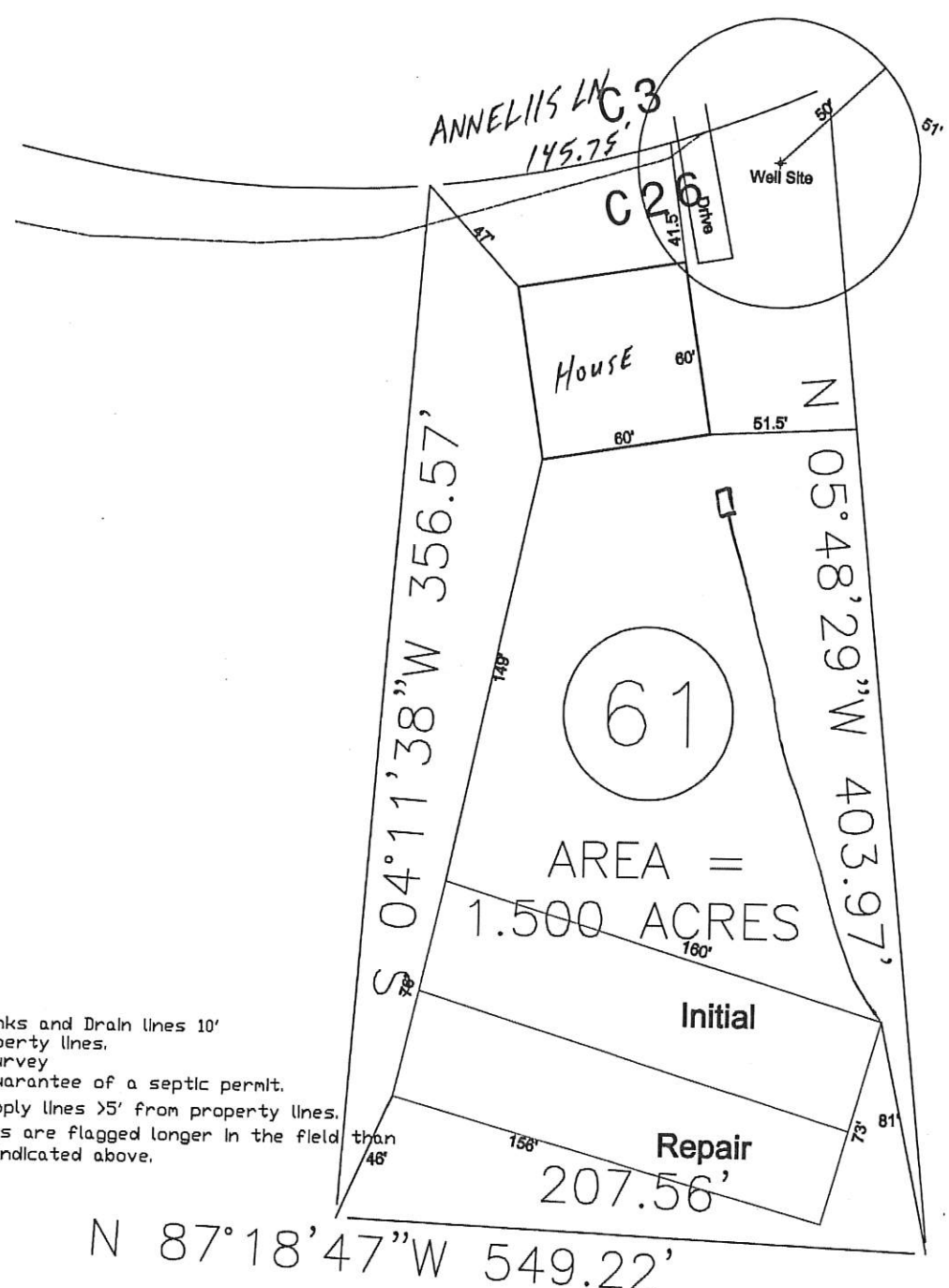
Issued by:

James Carl Kivett

Date: 11/14/2019

NC Registration #: 1912

Carl Kivett



- *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.

N 87°18'47"W 549.22'

GRAPHIC SCALE
1" = 60'



Improvement Permit site plan
11/14/19 *James Carl Knittel*

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 Sketch Layout
Lot 61 Cattail Creek Subdivision
Chatham County, North Carolina

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



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www.chathamnc.org/environmentalhealth

Expiration Date: December 23, 2024

Permit Number: PREH201908374

New

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

*Revised DP
 1/10/2020 65*
Subdivision Lot: 66

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

An Improvement Permit is issued to KARELIAN HOMES INC for a 3.047 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	Description 400' x 3' x 8" At Grade Low Profile Chambers
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Type of System: At Grade Low Profile Chamber

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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Nitrification Line: Length: 400 Ft	Width: 3 Ft	Max Depth: 8 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 8 inches on the downhill slope side. 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.
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THIS IS NOT AN AUTHORIZATION TO INSTALL.

Issued by:

Date: 12/23/2019

NC Registration #: 2819

Daniel Potts



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www.chathamnc.org/environmentalhealth

Expiration Date: December 23, 2024

Permit Number: PREH201908376

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 67*
Subdivision Lot: 68

An Improvement Permit is issued to KARELIAN HOMES INC for a 2.662 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: 400' x 3' x 10"
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Type of System: Pump to Low Profile Chamber

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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Nitrification Line: Length: 400 Ft	Width: 3 Ft	Max Depth: 10 In
(on Contour in approved septic area; sch. 40 PVC required over step-downs)		

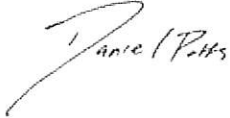
Repair System Type: Pump to Low Profile Chamber

Special Conditions: Trench depth 10 Inches on the downhill slope side. 6 inches of soil required over the drainfield. Pressure Manifold design 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.

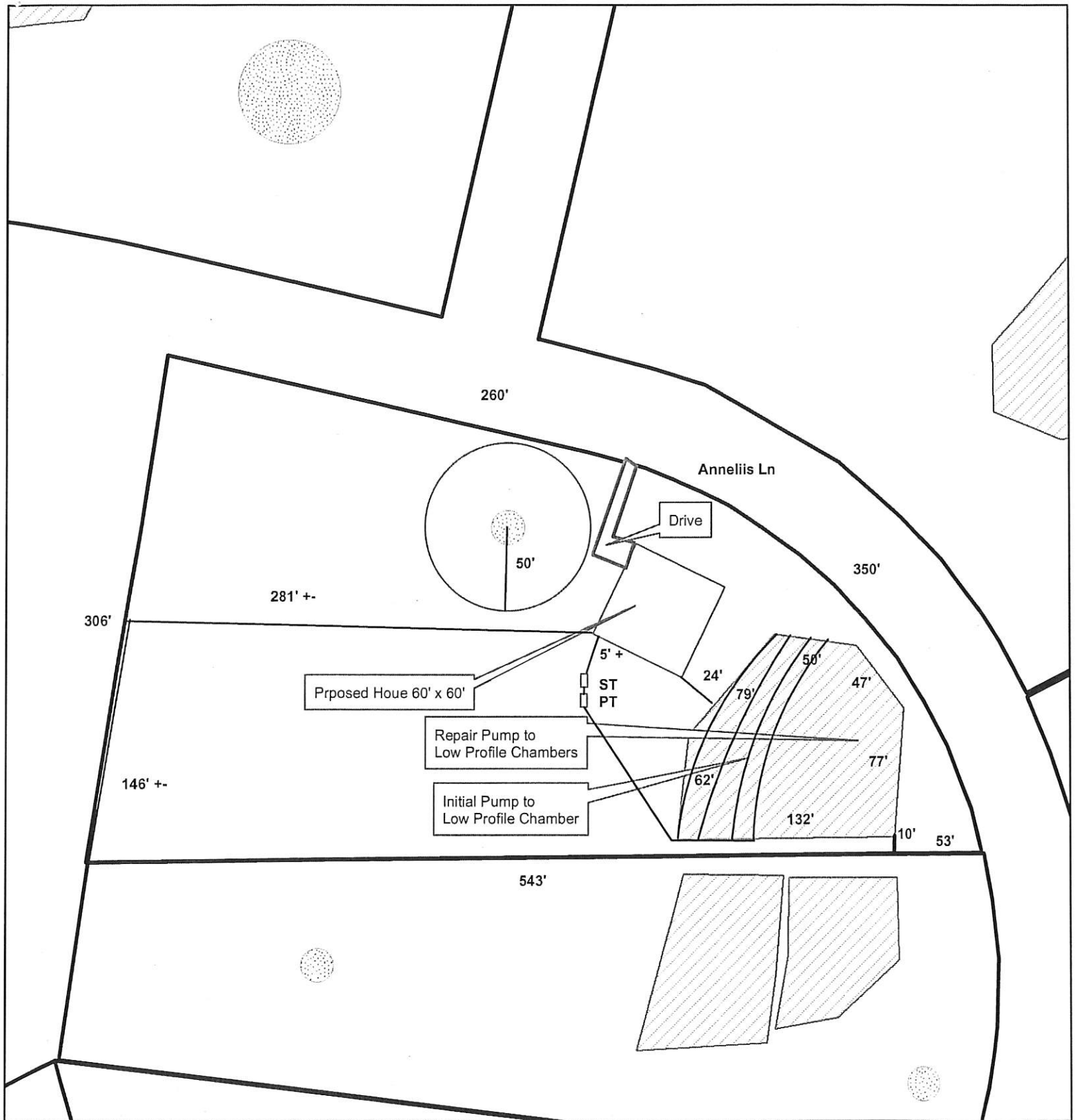
Issued by:



 Daniel Potts

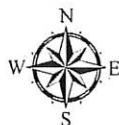
Date: 12/23/2019

NC Registration #: 2819

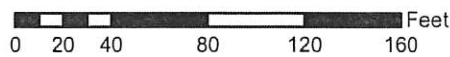


Legend

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



1 inch equals 80 feet



Author: *Jenny Potts RHCSE*

Date: *12/23/2019*



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

Expiration Date: November 15, 2024

Permit Number: PREH201908377

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 68
Subdivision Lot: 69

An Improvement Permit is issued to KARELIAN HOMES INC for a site on a 3.409 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: Anaerobic subsurface drip irrigation - Plans and layout required for CA
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Type of System: **Anaerobic drip**

Design Flow: 360 EGPD	Application Rate: 0.1 GPD/ft
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Size Tank(s) with Riser(s) and Effluent Filter:	ST Gal PER PLANS	PT Gal PER PLANS

Nitrification Line: Length: 1,800 ft.	Width: 2 in.	Max Depth: 6 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: Anaerobic subsurface drip irrigation system design and approval required prior to issuance of Construction Authorization; 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 R. Tiger, CHES

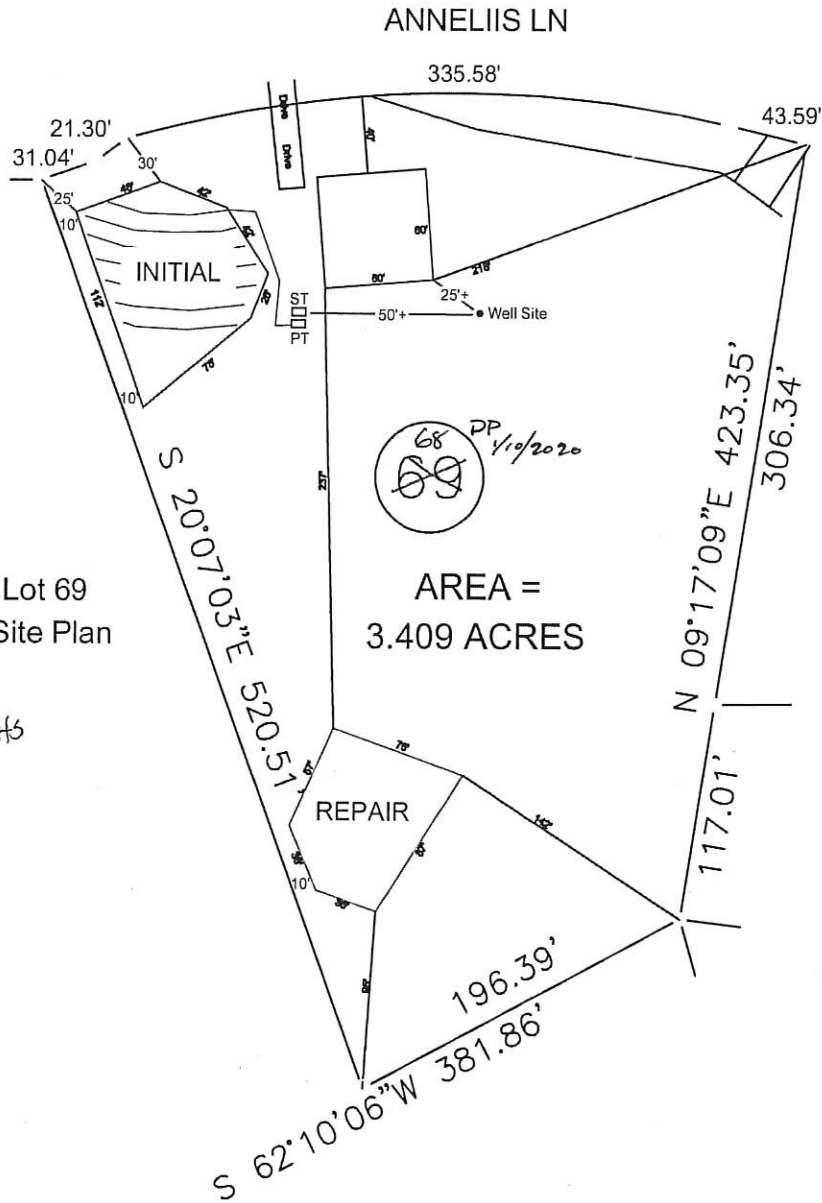
Date: 11/15/2019

NC Registration #: 2492

James Tiger

Lane at Cattail Creek Lot 69
Improvement Permit Site Plan

Jane R. Tynette
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

3-Bedroom Septic Layout
Lot 69 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
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

Expiration Date: November 26, 2024

Permit Number: PREH201908378

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 *69*
Subdivision Lot: 70

An Improvement Permit is issued to KARELIAN HOMES INC for a site located on a 2.523 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: III-b	Description Pump to Low Profile Chambers with Pressure Manifold
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Type of System: Pump to Low Profile Chambers

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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Nitrification Line: Length: 400 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.

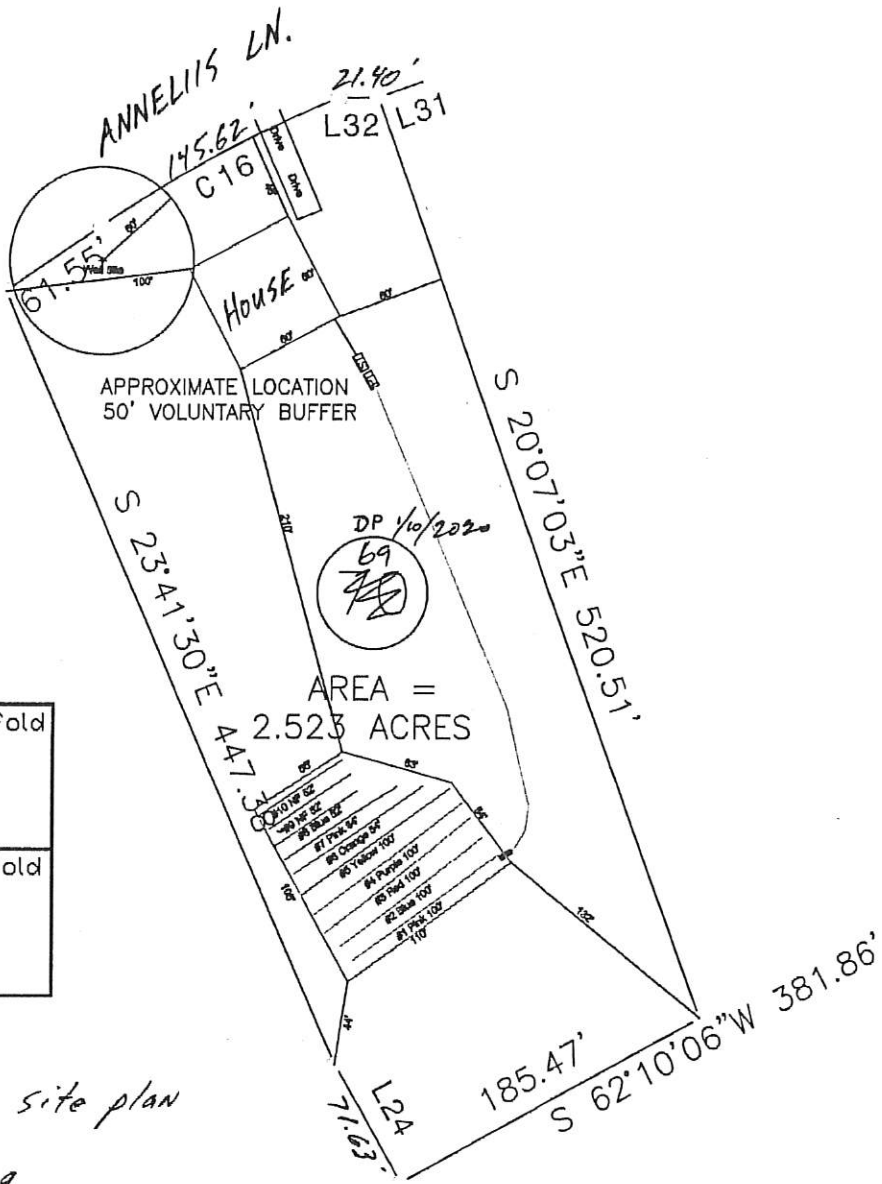
Issued by:

James Carl Kivett

Date: 11/26/2019

NC Registration #: 1912

Carl Kivett



System: Pressure Manifold Lines: 1-4, (400') 0.3 Soil LTAR 12" Trench Bottom Innovative System
REPAIR Pressure Manifold Lines: 5-10, (404') 0.3 Soil LTAR 12" Trench Bottom Innovative System

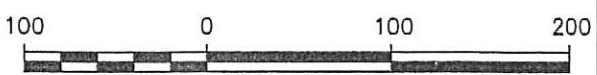
Improvement Permit site plan

pg. 1 of 1 11/26/19

James Carl Furr, REHS

- *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

3-Bedroom Septic Layout
Lot 70 Cattail Creek Subdivision
Chatham County, North Carolina

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