NC DEPARTMENT OF
HEALTH AND
HUMAN SERVICES

ROY COOPER • Governor
KODY H. KINSLEY • Secretary
MARK BENTON • Deputy Secretary for Health
SUSAN KANSAGRA • Assistant Secretary for Public Health
Division of Public Health

Application for Services

This application, in conjunction with the common form established in G.S. 130A-335(a3) and (a5), is optional for local health departments to be used for applications submitted in accordance with G.S. 130A-335(a2), (a3), and (a5).
[hereinafter, G.S. 130A-335(a3) and (a5) permits referred to as (a2) Improvement Permit and (a2) Construction Authorization]

Applying for:
☑ (a2) Improvement Permit ☑ (a2) Construction Authorization ☐ (a2) Repair/Construction Authorization

Please check one of the following:
☑ New Construction ☐ Expansion ☐ System Relocation ☐ Change of Use ☐ Repair
☑ 5 Year Expiration Requested (site plan provided)
☐ Non-Expiring Permit Requested (plat provided, as defined in G.S. 130A-334(7a)

Property Owner Name: KB Home Raleigh-Durham, Inc.
Property Owner Mailing Address: 1800 Perimeter Park Dr., Ste. 140, Morrisville, NC 27560
Property Owner Phone Number: 919-768-7995
Property Owner Email Address: raleighpermits@kbhome.com

Applicant Name: Same
Applicant Mailing Address: _____
Applicant Phone Number: _____
Applicant Email Address: _____

Does the property include, or is subject to, any of the following:
☐ Yes ☑ No Previously identified jurisdictional wetlands
☐ Yes ☑ No Existing or proposed easements, rights-of-way, encroachments, or other areas subject to legal restrictions
☐ Yes ☑ No Approval by other public agencies

A site plan or plat is required, **OR** the site sketch submitted from the LSS/AOWE, must include the following:
(A) existing and proposed facilities, structures, appurtenances, and wastewater systems
(B) proposed wastewater system showing setbacks to property line(s) or other fixed reference point(s)
(C) existing and proposed vehicular traffic areas
(D) existing and proposed water supplies, wells, springs, and water lines; and
(E) surface water, drainage features, and all existing and proposed artificial drainage, as applicable.

Requesting DHHS review: ☐ Yes ☑ No

I understand that the documentation and fees, as required in G.S. 130A-335(a2), (a3), (a5), and (a6), attached to this application are to be used to issue an Improvement Permit and/or Construction Authorization pursuant to G.S. 130A-335(a2),(a3), and (a5). I understand that authorized county and state officials are granted right of entry to the property indicated on this application to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that if the information in the application for an Improvements Permit and/or Construction Authorization is falsified, changed, or the site is altered, then the Improvement Permit and Construction Authorization shall become invalid.

Applicant Signature: _____ Date: _____

Owner's Signature: _____ Date: _____

Permit/File #: _____

NC DEPARTMENT OF
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Division of Public Health

Submittal Includes: ■ **(a2) Improvement Permit** ■ **(a2) Construction Authorization** ☐ **Fee $**_____

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)

County: Harnett

PIN/Lot Identifier: 0549-07-75585.000

Issued To: KB Home Raleigh-Durham, Inc., 1800 Perimeter Park Dr., Ste. 140, Morrisville, NC 27560

Property Location: 18 Caspian Ct., Lillington, NC 27546

Subdivision (if applicable) Elyse Meadows Lot #: 10 Block: _____ Section: _____

LSS Report Provided: Yes ■ No ☐

If yes, name and license number of LSS: Michael D. Eaker, 1030

New ■ Expansion ☐ System Relocation ☐ Change of Use ☐

Facility Type: Single Family Dwelling

Number of bedrooms: 3 Number of Occupants: 6 or less Other: _____

Design Wastewater Strength: ■ Domestic ☐ High Strength ☐ Industrial Process Wastewater

Proposed Design Daily Flow: 360 GPD Proposed LTAR (Initial): 0.3 gpd/ft2 Proposed LTAR (Repair): 0.3 gpd/ft2

Proposed Wastewater System Type*: Pump to Accepted (25% reduction) (Initial) Pump Required: ■ Yes ☐ No ☐ May be required

Proposed Wastewater System Type*: Pump to Accepted (25% reduction) (Repair) Pump Required: ■ Yes ☐ No ☐ May be required

**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*

Effluent Standard: ■ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

Saprolite System (Initial): ☐ Yes ■ No Saprolite System (Repair): ☐ Yes ■ No

Fill System (Initial): ☐ Yes ■ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Fill System (Repair): ☐ Yes ■ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Usable Depth to LC (Initial)[x]: 42" Usable Depth to LC (Repair)[x]: 43" ***[x] Limiting Condition***

Max. Trench Depth (Initial)[‡]: 24" Max. Trench Depth (Repair)[‡]: 24" ***[‡] Measured on the downhill side of the trench***

Artificial Drainage Required: ☐ Yes ■ No If yes, please specify details: _____

Type of Water Supply: ☐ Private well ☐ Public well ☐ Shared well ■ Municipal Supply ☐ Spring ☐ Other: _____

Drainfield location meets requirements of Rule .0508: Yes ■ No ☐ Drainfield location meets requirements of Rule .0601: Yes ■ No ☐

Permit valid for: ■ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Install as per detail sheet and map. Do not disturb, compact, rut or cut any soil within the septic drainfield area.

Ensure 6 inches approved fill cover is maintained over system after installation.

Start line 1 near rear property line at 18" trench bottom depth. Trench will be 24" deep near road.

NC ONSITE WASTEWATER EVALUATOR Certification Number 10013E

Licensed Soil Scientist Print Name: Michael D. Eaker

Licensed Soil Scientist Signature: _____ Date: 03/31/2025

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch

NC DEPARTMENT OF
HEALTH AND HUMAN SERVICES
Division of Public Health

Permit/File #: _____

This Section for Local Health Department Use Only

Initial submittal received: _____ by _____
Date *Initials*

G.S. 130A-335(a3) states the following:

When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

_____

_____

Copies of this were sent to the LSS and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☐ Complete

State Authorized Agent: _____ Date: _____

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. *This permit is subject to revocation if the site plan, plat, or the intended use changes.* The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of 15A NCAC 18E and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: _____

See attached site sketch

NC DEPARTMENT OF
HEALTH AND HUMAN SERVICES
Division of Public Health

Permit/File #: _____

Re-submittal of Improvement Permit

LHD USE ONLY: This IP resubmittal received: _____ by _____
Date *Initials*

The following items are being resubmitted pursuant to G.S. 130A-335(a3) for issuance of the Improvement Permit:

_____

_____

_____

I, _____ hereby attest that the information required to be included with this re-submittal
Licensed Soil Scientist (Print Name)
is accurate and complete to the best of my knowledge and that the proposed Improvement Permit meets all applicable federal, State, and local laws, regulations, rules, and ordinances.

_____ _____
Signature of Licensed Soil Scientist *Date*

The section below is for Local Health Department use after submittal of items noted as missing above.

LHD Follow-up Completeness Review of Improvement Permit

The review for completeness of this Improvement Permit re-submittal was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

_____

_____

Copies of this were sent to the LSS and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☐ Complete

State Authorized Agent: _____ Date: _____

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES
Division of Public Health

Permit/File #: _____

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County: Harnett **Pre-Construction Conference Required:** Yes ☐ No ■

PIN/Lot Identifier: 0549-07-5585.000 - Elyse Meadows, Lot 10

Issued To: KB Home Raleigh-Durham, Inc., 1800 Perimeter Park Dr., Ste. 140, Morrisville, NC 27560

Property Location: 18 Caspian Ct., Lillington, NC 27546

AOWE/PE Plans/Evaluations Provided: Yes ■ No ☐ If yes, name and license number of AOWE/PE: Michael D. Eaker 10013E

Facility Type: Single Family Dwelling

Number of bedrooms: 3 Number of Occupants: 6 or less Other: _____

■ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use

Basement? ☐ Yes ■ No Basement Fixtures? ☐ Yes ☐ No

Crawl Space? ■ Yes ☐ No Slab Foundation? ■ Yes ☐ No

Type of Wastewater System* Pump to Accepted (25% reduction) (Initial) Pump to Accepted (25% reduction) (Repair)

**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*

Design Daily Flow: 360 GPD Wastewater Strength: ■ Domestic ☐ High Strength ☐ Industrial Process WW

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☐ Yes ☐ No
(if yes, please provide engineering documentation)

Effluent Standard: ■ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW

Type of Water Supply: ☐ Private well ☐ Public well ☐ Shared well ■ Municipal Supply ☐ Spring ☐ Other: _____

Installation Requirements/Conditions

Septic Tank Size: 1000 gallons Total Trench/Bed Length: 300 feet Trench/Bed Spacing: 9 feet on center

Trench/Bed Width: 36 inches LTAR: 0.3 gpd/ft² Usable Depth to LC (Initial)ˣ: 42" ˣ***Limiting condition***

Soil Cover: 6+ inches Slope Corrected Maximum Trench/Bed Depth‡: 18-24" (see note) inches ‡ ***Measured on the downhill side of the trench***

Pump Tank Size (if applicable): 1000 gallons Requires more than 1 pump? ☐ Yes ■ No

Pump Requirements: 10.46 ft. TDH vs. 21.33 GPM Grease Trap Size (if applicable): _____ gallons

Distribution Method: ☐ Serial ■ D-Box or Parallel ☐ Pressure Manifold(s) ☐ LPP ☐ Other: _____

Artificial Drainage Required: Yes ☐ No ■ If yes, please specify details: _____

Legal Agreements *(If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)*

Multi-party Agreement Required [.0204(g)]: ☐ Yes ■ No Declaration of Restrictive Covenants: ☐ Yes ■ No

Easement, Right-of-Way, or Encroachment Agreement Required [.0301(b)]: ☐ Yes ■ No

Management Entity Required: ☐ Yes ■ No Minimum O&M Requirements: _____

Permit conditions:

Install as per detail sheet and map. Do not disturb, compact, rut or cut any soil within the septic drainfield area.

Ensure 6 inches approved fill cover is maintained over system after installation.

NC ONSITE WASTEWATER EVALUATOR
Certification Number 10013E

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. *This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes.* The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

AOWE/PE Print Name: Michael D. Eaker

AOWE/PE Signature: _____ Date: 03/31/2025

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch

NC DEPARTMENT OF
HEALTH AND HUMAN SERVICES
Division of Public Health

Permit/File #: _____

This Section for Local Health Department Use Only

Initial submittal received: _____ by _____
Date *Initials*

G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This Construction Authorization is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing: _____

_____

Copies of this were sent to the AOWE/PE and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☐ Complete

State Authorized Agent: _____ Date of Issuance: _____

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: _____

See attached site sketch

NC DEPARTMENT OF
HEALTH AND HUMAN SERVICES
Division of Public Health

Permit/File #: _____

Re-submittal of Construction Authorization

LHD USE ONLY: This CA resubmittal received: _____ by _____
Date *Initials*

The following items are being resubmitted pursuant to G.S. 130A-335(a5) for issuance of the Construction Authorization:

_____

_____

_____

_____

I, _____ hereby attest that the information required to be included with this re-submittal
Authorized Onsite Wastewater Evaluator (Print Name)
is accurate and complete to the best of my knowledge and that the proposed Construction Authorization meets all applicable federal, State, and local laws, regulations, rules, and ordinances.

_____ _____
Signature of Authorized On-Site Wastewater Evaluator *Date*

The section below is for Local Health Department use after submittal of items noted as missing above.

LHD Follow-up Completeness Review of Construction Authorization

The review for completeness of this Construction Authorization re-submittal was conducted in accordance with G.S. 130A-335(a5). This Construction Authorization is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

_____

_____

Copies of this were sent to the AOWE/PE and the Applicant on _____
Date

State Authorized Agent: _____ Date: _____

☐ Complete

State Authorized Agent: _____ Date: _____

NC DEPARTMENT OF
HEALTH AND
HUMAN SERVICES
Division of Public Health

Permit/File #: _____

ADDENDUM TO G.S. 130A-335(a2) SUBMITTAL

County: Harnett

PIN/Lot Identifier: 0549-07-5585.000, Elyse Meadows, Lot 10

Issued To: KB Home Raleigh-Durham, Inc., 1800 Perimeter Park Dr., Ste. 140, Morrisville, NC 27560

Additional Improvement Permit Conditions:

See attached detail sheet

Additional Construction Authorization Conditions:

See attached detail sheet

Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321
Fayetteville, NC 28311
Phone/Fax (910) 822-4540
Email mike@southeasternsoil.com

March 31, 2025

KB Home Raleigh-Durham, Inc.
1800 Perimeter Park, Suite 140
Morrisville, NC 27560

Re: Revised Soil/site evaluation for subsurface waste disposal (GS 130A-335(a2)/SL 2022-11), PIN 0549-07-5585.000, 18 Caspian Ct., Elyse Meadows Subdivision, Lot 10, Lillington, Harnett County, North Carolina

A soil/site evaluation has been conducted on the aforementioned property at your request. The purpose of the investigation was to determine if soils were suitable for a subsurface waste disposal system (conventional, accepted and innovative) to serve a proposed single-family residence (3-bedroom home). All ratings and determinations were made in accordance with "On Site Wastewater Rules, 15A NCAC 18E". **This LSS evaluation is being submitted to meet the requirements of GS 130A-335(a2)/SL 2022-11.**

The soil evaluation was completed on March 11, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (0-1% slope). Soil borings conducted in most of this area consisted of 20 or more inches of loamy sand underlain by sandy loam, sandy clay loam, clay loam, clay and/or sandy clay to 48 or more inches below the soil surface. Soil wetness and/or parent material (greater than 50%) was not observed shallower than 42 inches below the soil surface (initial system) and 43 inches (repair system). All other soil characteristics were suitable to at least 48 inches.

Based on soil borings and site conditions, the site would be designated suitable for a pump to a shallow pump to accepted subsurface waste disposal drainfield (0.30 gal/day/ft2 LTAR; initial system). There is enough suitable soil area to allow for a pump to an accepted subsurface waste disposal system repair (0.30 gal/day/ft2). A map showing the approximate location of the site and proposed septic layout accompanies this report. **[Note: No grading, rutting or other soil disturbance can occur in or near the proposed septic area. Any grading can alter the findings of this report and render the site unusable. As such, we recommend the builder protect the proposed septic areas with rope, flagging, fencing, etc.]**

Design Summary

- Pump to Accepted product with **d-box** (300', see septic layout)
- 360 gal/day flow rate (3BR)
- 24" maximum trench depth (initial)
- 1000-gallon septic and pump tank (certified watertight)
- Pump to produce 21.33 gal/min @ 10.46 feet TDH
- Pump dose 137 gallons (6.8-inch drawdown)
- 0.30 gpd/ft2 LTAR (initial and repair)
- No grading, rutting or filling in septic areas
- No vertical cuts (greater than 2') within 15' of septic lines/areas
- Keep tanks and drainlines 10' from property lines
- Keep supply line 5 or more feet from property lines
- **Install in dry soil conditions**
- Maintain natural contours when clearing the lots
- Direct gutter water away from septic system

During site construction, it is important not to impact and suitable or provisionally suitable soil areas with activities such as excavation or filling. Only the vegetation should be removed in the areas of the proposed septic drainfields to prevent any disturbance of naturally occurring soil. We recommend all lot clearing activity be delayed until the local health department issues a permit.

To the extent possible, we have identified the soil types that will impact the flow of wastewater on this site and have provided a professional opinion as to the best septic system layout. This report does not guarantee that the proposed septic system will properly function for any specific length of time.

Sincerely,

Mike Eaker
NC Licensed Soil Scientist # 1030
NC Authorized Wastewater Evaluator 10013E

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: Elyse Meadows **LOT** 10

INITIAL SYSTEM: pump to Accepted 25% Reduction **REPAIR:** pump to Accepted 25% Reduction

DISTRIBUTION: D-Box **DISTRIBUTION** D-Box

BENCHMARK: 100.0 **LOCATION** RC 9/10

NO. BEDROOMS: 3 **LTAR** 0.30 gpd/ft2

SEPTIC TANK SIZE 1000 Gallons **PUMP TANK SIZE** N/A

	LINE	FLAG COLOR	ELEVATION	LENGTH
Initial	1	L	100.90	100
	2	P	100.90	100
	3	L	100.70	100
				300 TOTAL
Repair	4	P	100.60	100
	5	L	100.40	100
	6	P	100.30	100
				300 TOTAL

BY Mike Eaker **DATE** 3/10/25

TYPICAL PROFILE

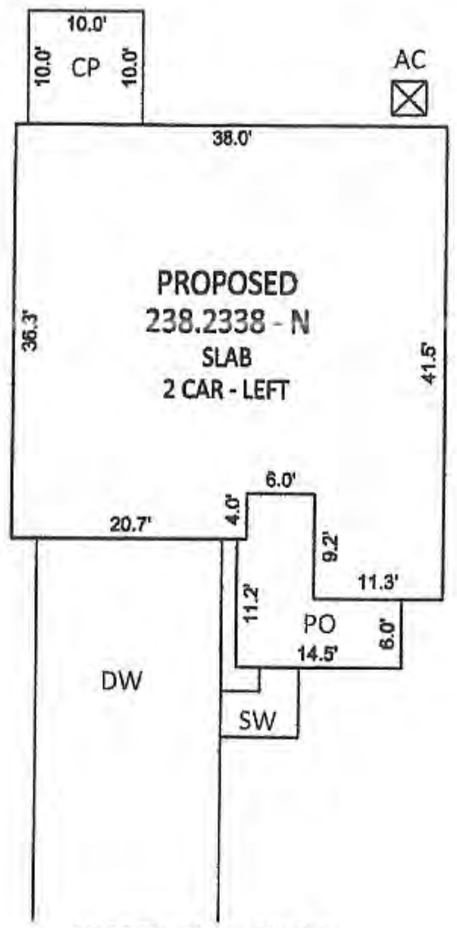
Initial	0-20	LS/SL	VFr/Fr/Gr
	20-48	SCL/SC	Fi/SBk
	CR2/R	42"	
Repair	0-20	LS/SL	VFr/Fr/Gr
	20-48	SCL/SC	Fi/SBk
	CR2/R	43"	

THERE SHALL BE NO GRADING, CUTTING, LOGGING OR OTHER SOIL DISTURBANCE IN SEPTIC AREA

HEALTH DEPARTMENT USE ONLY.

DESIGNS DO NOT GURANTEE FUNCTIONALITY

NC ONSITE WASTEWATER EVALUATOR
Certification Number 10013E



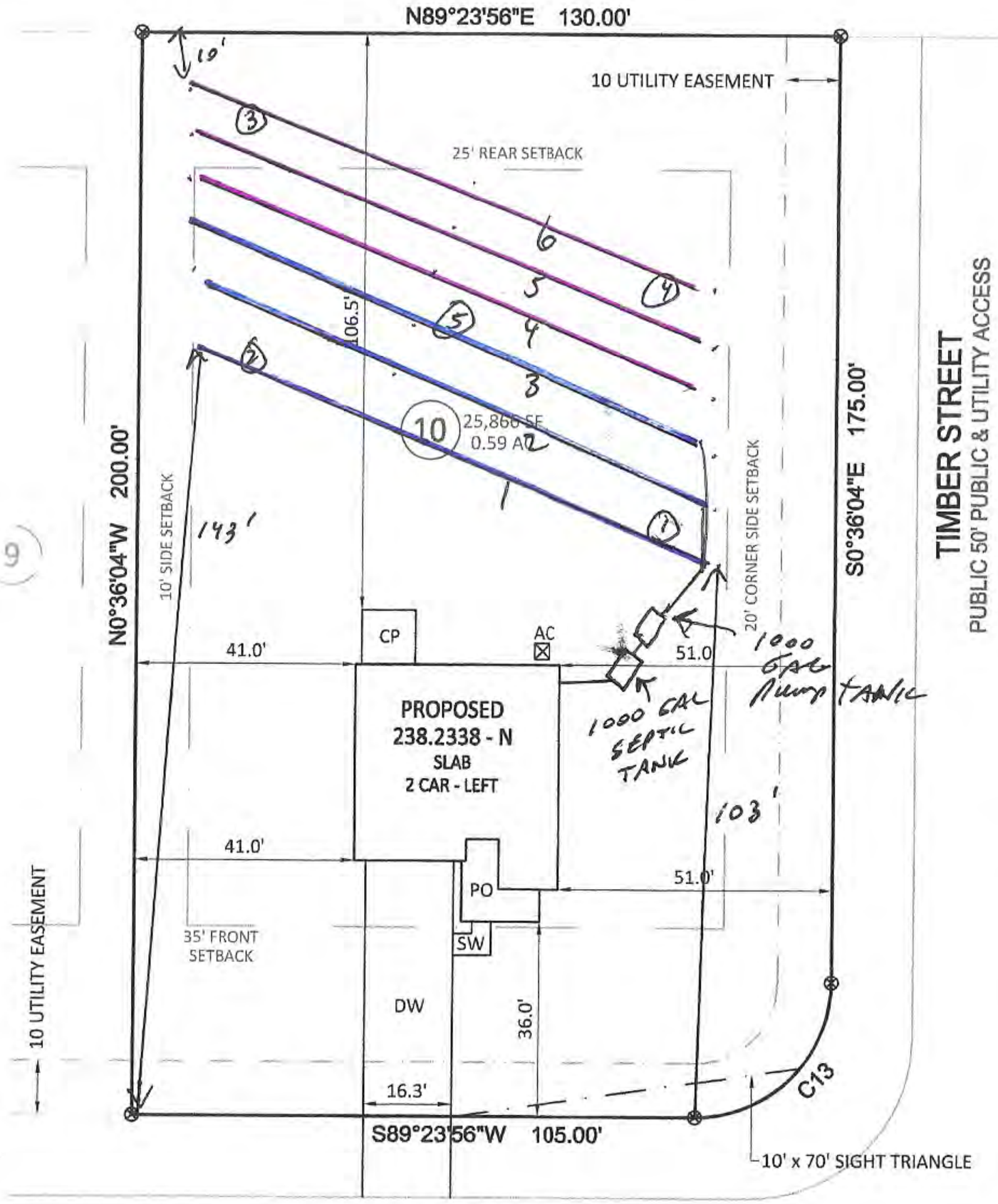
INSET SCALE: 1"=20'

LOT INFORMATION:

PIN:0549-07-5585
REFERENCE: BK 4232 PG 2770
TOTAL LOT AREA = 0.59 AC = 25,866 SF
HOUSE = 1,415 SF
PORCH = 146 SF
SIDEWALK = 35 SF
DRIVEWAY = 767 SF
PATIO = 100 SF
AC PAD = 9 SF
PROPOSED IMPERVIOUS = 2,472 SF
PERCENT IMPERVIOUS = 9.56 %
MAXIMUM IMPERVIOUS = 9,000 SF

BUILDING SETBACKS
FRONT - 35'
REAR - 25'
SIDE - 10'
CORNER SIDE - 20'

CURVE TABLE				
CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
C13	25.00'	39.27'	S44°23'56"W	35.36'

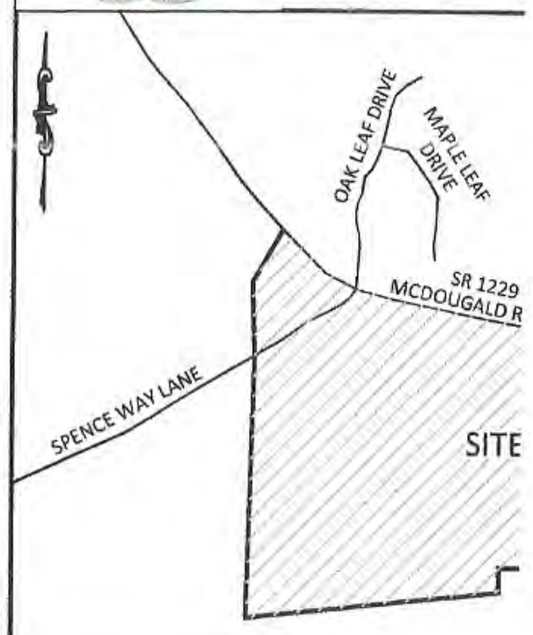


BM 2025 PG.133

NOTES:

1. THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF SONYA A. WARD, PLS.
2. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
3. PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT.
4. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
5. THIS MAP IS NOT FOR RECORDATION AND SHOULD BE REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.
6. THE BASIS OF NORTH AND ALL EASEMENTS, RIGHTS-OF-WAYS, BUFFERS, SETBACKS AND ADJOINERS, ETC. REFERENCED IN TITLE BLOCK.
7. NO INVESTIGATION INTO THE EXISTENCE OF JURISDICTIONAL WETLANDS, FLOOD ZONES OR RIPARIAN BUFFERS PERFORMED BY THIS FIRM. ALL LINES SHOWN, IF ANY, ARE SCALED FROM THE RECORDED PLAT.
8. SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
9. THIS PROPERTY LIES WITHIN FLOOD ZONE "X" ACCORDING TO MAP #3720052800J & #3720054800J OF THE FLOOD INSURANCE RATE, BOTH DATED OCTOBER 3, 2006.
10. ZONING: RA-30
11. BUILDER/DEVELOPER: KB HOME RALEIGH DURHAM INC
4506 S MIAMI BLVD
STE 100
DURHAM, NC 27703

Bateman C
Engineers
2524 Reliance Avenue, Ap
www.batemancivils



LEGEND

PO = COV. FRONT PORCH/PATIO
CP = COV. REAR PORCH/PATIO
WD = WOOD DECK
SW = SIDEWALK
DW = CONCRETE DRIVEWAY
SP = SCREENED PORCH/PATIO
P = CONCRETE PATIO
⊗ = COMPUTED POINT
○ = IRON PIPE FOUND (IPF)
◉ = IRON PIPE SET (IPS)
● = SCRIBE FOUND/SET (SS)
WM = WATER METER
CO = CLEAN OUT
AC = AIR CONDITIONER
C = CABLE PEDESTAL
S = SEWER MANHOLE
= TELEPHONE PEDESTAL
CB = CATCH BASIN/CURB INLET
= LIGHT POLE
HH = HAND HOLE/UTILITY VAULT
EB = ELECTRIC BOX/TRNSFRMR
= FIRE HYDRANT
DI = DRAIN INLET/YARD INLET
G = GAS METER
E = ELECTRIC METER

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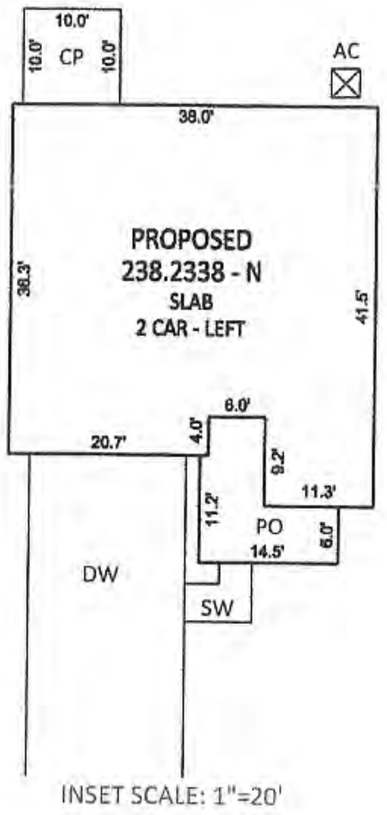
ELYSE MEADOWS -
18 CASPIAN COURT,
UPPER LITTLE RIVER TOWN

DATE: 3/4/25 DRAWN BY: A

REFERENCE: BM 2025 PG.133 BC



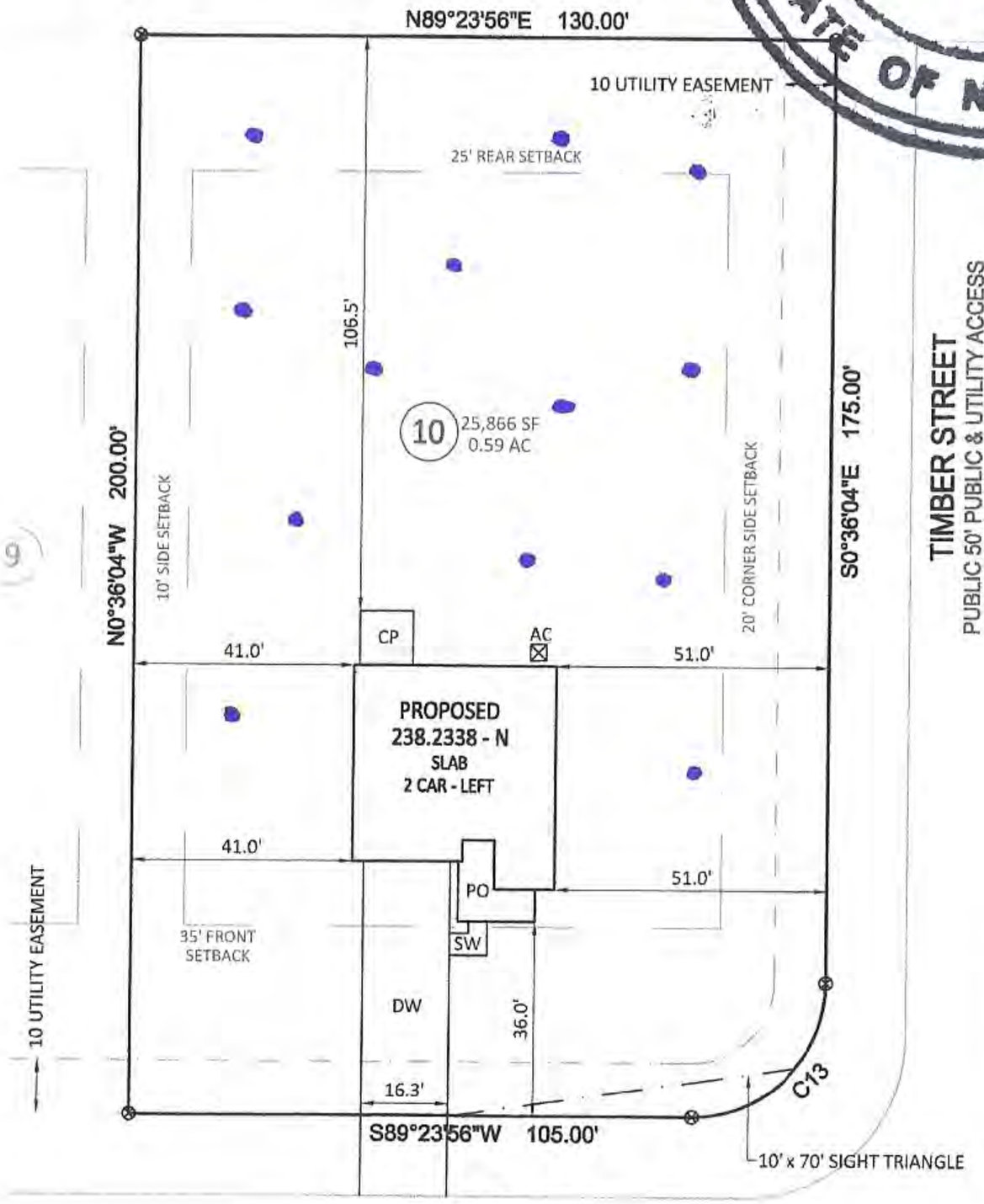
INSET SCALE: 1"=20'

LOT INFORMATION:

PIN:0549-07-5585
REFERENCE: BK 4232 PG 2770
TOTAL LOT AREA = 0.59 AC = 25,866 SF
HOUSE = 1,415 SF
PORCH = 146 SF
SIDEWALK = 35 SF
DRIVEWAY = 767 SF
PATIO = 100 SF
AC PAD = 9 SF
PROPOSED IMPERVIOUS = 2,472 SF
PERCENT IMPERVIOUS = 9.56 %
MAXIMUM IMPERVIOUS = 9,000 SF

BUILDING SETBACKS
FRONT - 35'
REAR - 25'
SIDE - 10'
CORNER SIDE - 20'

CEMETERY



CURVE TABLE					
CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD	
C13	25.00'	39.27'	S44°23'56"W	35.36'	

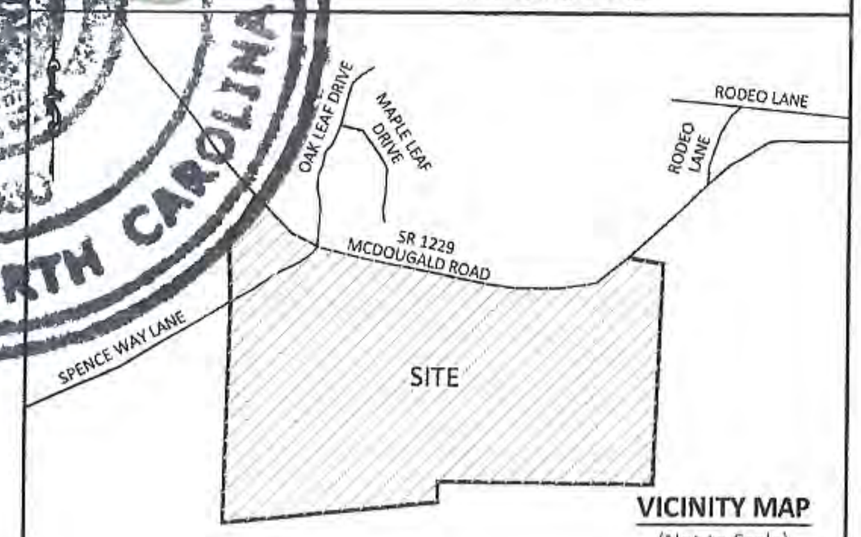
NOTES:

1. THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF SONYA A. WARD, PLS.
2. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
3. PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT.
4. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
5. THIS MAP IS NOT FOR RECORDATION AND SHOULD BE REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.
6. THE BASIS OF NORTH AND ALL EASEMENTS, RIGHTS-OF-WAYS, BUFFERS, SETBACKS AND ADJOINERS, ETC. REFERENCED IN TITLE BLOCK.
7. NO INVESTIGATION INTO THE EXISTENCE OF JURISDICTIONAL WETLANDS, FLOOD ZONES OR RIPARIAN BUFFERS PERFORMED BY THIS FIRM. ALL LINES SHOWN, IF ANY, ARE SCALED FROM THE RECORDED PLAT.
8. SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
9. THIS PROPERTY LIES WITHIN FLOOD ZONE "X" ACCORDING TO MAP #3720052800J & #3720054800J OF THE FLOOD INSURANCE RATE, BOTH DATED OCTOBER 3, 2006.
10. ZONING: RA-30
11. BUILDER/DEVELOPER: KB HOME RALEIGH DURHAM INC
4506 S MIAMI BLVD
STE 100
DURHAM, NC 27703

= Suitable Soil

LICENSED SOIL SCIENTIST
MICHAEL D. EAKER
1000
STATE OF NORTH CAROLINA

Bateman Civil Survey Company
Engineers • Surveyors • Planners
2... Reliance Avenue, Apex, NC 27539 Ph: 919.577.1080 Fax: 919.577.1081
www.batemancivilsurvey.com info@batemancivilsurvey.com
NCBELS Firm No. C-2378



VICINITY MAP
(Not to Scale)

LEGEND

PO = COV. FRONT PORCH/PATIO
CP = COV. REAR PORCH/PATIO
WD = WOOD DECK
SW = SIDEWALK
DW = CONCRETE DRIVEWAY
SP = SCREENED PORCH/PATIO
P = CONCRETE PATIO
⊗ = COMPUTED POINT
○ = IRON PIPE FOUND (IPF)
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= FIRE HYDRANT
DI = DRAIN INLET/YARD INLET
G = GAS METER
E = ELECTRIC METER

I, SONYA A. WARD, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY DIRECT SUPERVISION FROM A SURVEY MADE UNDER MY SUPERVISION (PLAT BOOK REFERENCED IN TITLE BLOCK); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION LISTED UNDER REFERENCES; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARD OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA. L-4017
DATED:

PRELIMINARY

This map is of an existing parcel of land and is only intended for the parties and purposes shown. This map not for recordation. No title report provided.

BUILDER TO VERIFY HOUSE LOCATION
DIMENSIONS AND REVIEW TOTAL
IMPERVIOUS NOTED ON THIS PLOT PLAN

PRELIMINARY PLOT PLAN
FOR
NAME

ELYSE MEADOWS - PHASE 1 - LOT 10
18 CASPIAN COURT, LILLINGTON, NC
UPPER LITTLE RIVER TOWNSHIP, HARNETT COUNTY

DATE: 3/4/25 DRAWN BY: AHB CHECKED BY: SAW

REFERENCE: BM 2025 PG.133 BCS# 250242 SCALE: 1" = 30'

DEPARTMENT OF HEALTH AND HUMAN SERVICE
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

ID #: _____
COUNTY: Harnett

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

OWNER: KB Homes
ADDRESS: 1800 Perimeter Park Dr., Ste. 140, Morrisville, NC 27560
PROPOSED FACILITY: SFD PROPOSED DESIGN FLOW (.1949): 360 GPD (3BR)
LOCATION OF SITE: 18 Caspian Ct., Lillington (Lot 10) Elyse

APPLICATION DATE
DATE EVALUATED:03/11/25
PROPERTY SIZE: 0.59 Ac
PROPERTY RECORDED

WATER SUPPLY: ☐ Private X Public Well ☐ Spring ☐ Other _____

EVALUATION METHOD: X Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: X Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 1-2%	0-2	LS/Gr	VFr/Nexp	>48" 10YR 6/4	42"	NA	NA	Suitable 0.30
		2-20	LS/Gr	VFr/Nexp					
		20-32	SCL/C/mm sbk	Fi/SExp	7.5YR 5/8				
		32-42	SCL/SC/wfsbk	Fi, SExp	7.5YR 5/8				
		42-48	SL/mass		2.5YR 5/8 2.5YR 5/8				
2	LS 1-2%	0-6	LS/Gr	VFr/Nexp	45" 10YR 6/4	NA	NA	NA	Suitable 0.30
		6-20	LS/Gr	VFr/Nexp					
		20-45	SCL/SC/mm sbk	Fi/SExp	10YR 5/8				
		45-48	SCL/SC/wfsbk	Fi, SExp	10YR 5/8				
					2.5YR 5/8 mot 10YR 7/1 mot				
3	LS 1-2%	0-16	LS/Gr	VFr/Nexp	>48" 10YR 6/4	NA	NA	NA	Suitable 0.30
		16-34	LS/Gr	VFr/NExp					
		34-48	SCL/SC/mm sbk	Fi/SExp	7.5YR 5/8				
4	LS 1-2%	0-8	LS/SL/Gr	Fr/Nexp	43" 10YR 6/4	NA	NA	NA	Suitable 0.30
		8-20	LS/Gr	VFr/Nexp					
		20-37	SCL/Sc/mm sbk	Fi/SExp	7.5YR 5/8				
		37-43	SCL/wf sbk	Fi/SExp	7.5YR 5/8				
		43-48	SC/wf sbk	Fi/SExp	7.5YR 5/8 10YR 7/1 mot				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	Yes	Yes
System Type(s)	Accepted	Accepted
Site LTAR	0.30	0.30

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): Suitable

EVALUATED BY: M. Eaker
OTHER(S) PRESENT:

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: Elyse Lot 10
DATE OF EVALUATION: 03/11/25
COUNTY: Harnett

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
5	LS 1-2%	0-8	LS/Gr	VFr/NExp	44" 10YR 6/4	NA	NA	NA	Suitable 0.30
		8-30	LS/Gr	VFr/NExp					
		30-44	SCL/SC/mm sbk	Fi/SExp	7.5YR 5/8				
		44-48	SC/wf sbk	Fi/SExp	7.5YR 5/8				
					10YR 7/1				
6									