



Department of Environmental Services

County: WAKEApproved by: Caroline Suggs, PEHS**This Section for Local Health Department Use Only**Date: 5/17/23

This Construction Authorization is issued pursuant to G.S. 130A-335(a2), (a5), and (a6) using the signed and sealed plans or evaluations attached here. Applicant is responsible for adhering to all State and Local rules, regulations and laws.

Initial submittal received: 5/9/23

Date

by CS

Initials

Permit Number: WRP-076151-2022

PIN: 1607969538

G.S. 130A-335(a6) states the following: 'If a local health department fails to act on an application for a construction authorization submitted pursuant to subsection (a5) of the section within 10 business days of receipt of a complete application, the local health department shall issue the construction authorization.'

In accordance with G.S. 130A-335(a5) the construction authorization application is:

☐ 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 Owner on _____

Date

State Authorized Agent: _____

Date: _____

☐ Denied (See attached report.)

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

Date

State Authorized Agent: _____

Date: _____

☒ Complete

State Authorized Agent: Caroline Suggs, PEHSDate of Issuance: 5/17/23

This Construction Authorization is issued pursuant to G.S. 130A-335(a2), (a5), and (a6) 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, or if information submitted in the application was falsified, inaccurate or misleading. 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 location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner. Final landscaping shall be constructed to divert water and establish vegetative cover.

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: 5/15/28

See attached site sketch



Soil & Environmental Consultants, PA

8412 Falls of Neuse Road, Suite 104, Raleigh, NC 27615 • Phone: (919) 846-5900 • Fax: (919) 846-9467
sandec.com

Revised May 5, 2023
April 27, 2023
S&EC Project # 13287

We are enclosing a subsurface wastewater evaluation and septic design completed by
Soil & Environmental Consultants, PA (S&EC) on the property located at:
Sauls Glen Subdivision Lot 56, 468 Thorny Branch Drive, Wake County, NC.

For Construction Authorization Permit (CA) septic issuance:

“The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335(a2), (a5), and (a6)”.

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

Sincerely
Soil & Environmental Consultants, PA

Cory Connell
NC Licensed Soil Scientist #1343
NCOWCICB Evaluator #10030E



Owner: KB Home Raleigh-Durham, Inc.

Owner's Representative: Rachel Cavaleir
DocuSigned by:
DFC52D88FA2C49C...

Date: 5/9/2023

County: WAKE

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 1607969538Issued To: KB HOME RALEIGH DURHAMProperty Location: 468 THORNY BRANCH DRIVE, SAULS GLEN LOT 56AOWE/PE Plans/Evaluations Provided: Yes ☒ No ☐ If yes, name and license number of AOWE/PE: CORY CONNELL #10030EFacility Type: 3-BEDROOM RESIDENCE, 360 GALLONS PER DAY☒ New ☐ Expansion ☐ Repair ☐ System RelocationBasement? ☐ Yes ☒ No Basement Fixtures? ☐ Yes ☒ NoType of Wastewater System** 25% REDUCTION PRODUCT IIIb (Initial) 25% REDUCTION PRODUCT IIIb (Repair)Design Daily Flow: 360 GPD Wastewater Strength: ☒ domestic ☐ high strength ☐ industrial processSession Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☐ Yes ☒ NoInstallation Requirements/ConditionsSeptic Tank Size: 1000 gallons Total Trench/Bed Length: 300 feet Trench/Bed Spacing: 9 feet on centerDrainfield square footage: 900 Trench/Bed Width: 36 inches LTAR: 0.3 gpd/ft²MINIMUM Soil Cover: 6 inches Slope Adjusted Maximum Trench/Bed Depth: 20 inchesAggregate Depth: _____ inches above pipe _____ inches below pipe 12 inches totalPump Tank Size (if applicable): 1000 gallons Requires more than 1 pump? ☐ Yes ☒ NoPump Requirements: 34.2 ft. TDH vs. 26.81 GPM Grease Trap Size (if applicable): _____ gallonsDistribution 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 [.1937(h)]: ☐ Yes ☒ NoEasement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: ☐ Yes ☒ NoDeclaration of Restrictive Covenants: ☐ Yes ☒ No****If applicable:***I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.*Owner/Legal Representative Print Name: Rachel CavalearOwner/Legal Representative Signature: Rachel Cavalear Date: 5/9/2023Pre-Construction Conference Required: Yes ☐ No ☒

Conditions: _____

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

AOWE/PE Print Name: CORY CONNELLAOWE/PE Signature: Cory Connell Date: 4-27-2023

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a3).

See attached site sketch

4-27-2023



Soil & Environmental Consultants, PA

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sandec.com

Private Consultant Septic Permit Cover Sheet

Issue Date by S&EC: April 27, 2023 Expiration Date: 5 years Permit Transferable from Applicant: ☐ YES ☒ NO

APPLICANT INFORMATION:

Applicant Name and Contact Person: KB HOME RALEIGH DURHAM
Phone: _____ Email address: RCAVALEAR@KBHOME.COM
Mailing Address: 4506 S. MIAMI BLVD, SUITE 100 DURHAM, NC 27703

SITE INFORMATION:

Property Address: 468 THORNY BRANCH DRIVE Wastewater Daily Design Flow (GPD): 360
County: WAKE Tax Parcel #/PIN: 1607969538 Acres: 0.61
Subdivision: SAULS GLEN Lot #: 56 Date property was deeded and/or recorded on plat: NA
☒ **SINGLE FAMILY HOME** # of Bedrooms: 3 ☐ **MULTI FAMILY** Daily GPD: _____
☐ **BUSINESS/COMMERCIAL** Daily GPD: _____ ☐ **OTHER** Daily GPD: _____

WASTEWATER STRENGTH: ☒ DOMESTIC ☐ HIGH STRENGTH ☐ INDUSTRIAL ☐ TO BE DETERMINED BY ENGINEER

WATER SUPPLY: ☐ NEW WELL ☐ EXISTING WELL ☒ COMMUNITY WELL ☐ PUBLIC WATER

PROJECT INFORMATION:

☒ NEW BUILDING ☐ EXPANSION TO EXISTING FACILITY ☐ SEPTIC SYSTEM REPAIR
☐ PERMIT REVISION ☐ SUBDIVISION/RECOMBINATION OF PROPERTY

SEPTIC PERMIT TYPE: G.S. 130A-335 SESSION LAW (HYBRID)

☐ IMPROVEMENT PERMIT (IP) ☒ CONSTRUCTION AUTHORIZATION (CA) ☐ OPERATION PERMIT (OP)
☐ ENGINEER OPTION PERMIT (EOP) NOTICE OF INTENT (NOI)

SEPTIC SYSTEM COMPONENTS:

INITIAL SEPTIC DRAIN LINE TYPE: 25% REDUCTION PRODUCT

INITIAL SEPTIC DRAIN LINE TOTAL LENGTH (FT): 300 TRENCHES: ☒ INDIVIDUAL ☐ BED ☐ MOUND/AERIAL FILL
INITIAL SEPTIC LTAR (GPD/FT²): 0.3 INITIAL TRENCH DEPTH MIN. (IN.): 18 INITIAL TRENCH DEPTH MAX. (IN.): 20
TRENCH WIDTH (FT.): 3 SEPTIC TANK MINIMUM LIQ. CAP. (GAL.): 1000 PUMP TANK MINIMUM LIQ. CAP. (GAL.): 1000

INITIAL SEPTIC DISTRIBUTION TYPE: PRESSURE MANIFOLD

SEPTIC PUMP: ☒ YES ☐ NO ☐ TO BE DETERMINED

IF PUMP IS NEEDED: Flow Per Minute (gallons/min) 26.81 Total Dynamic Head [TDH] (feet) 34.2 Pressure Head (feet) 2

PROJECT DESCRIPTION/NOTES: _____

SEPTIC MAINTENANCE/OTHER:

PRE-CONSTRUCTION MEETING: ☐ YES ☒ NO **MAINT. SCHEDULE:** ☒ YES ☐ NO **CERT. OPERATOR:** ☐ YES ☒ NO
BASEMENT: ☐ YES ☒ NO **ARTIFICIAL DRAINAGE:** ☐ YES ☒ NO **WASTEWATER ENGINEER NEEDED:** ☐ YES ☒ NO
EASEMENT, R.O.W., OR ENCROCHMENT AGREEMENT: ☐ YES ☒ NO **MULTI-PARTY AGREEMENT:** ☐ YES ☒ NO

S&EC Contact Name CC
Project Number 13287

Date 4-27-2023

Page 1 of _____

Project Name: SAULS GLEN LOT 56

FORM PCSP REV. SEPT. 2022

REPAIR SYSTEM COMPONENTS:REPAIR SEPTIC DRAIN LINE TYPE & DISTRIBUTION: 25% REDUCTION PRODUCT & PRESSURE MANIFOLDREPAIR LTAR (GPD/FT²): 0.3 REPAIR TRENCH DEPTH MINIMUM (IN): 18 REPAIR TRENCH DEPTH MAXIMUM (IN): 20

REPAIR DESCRIPTION/NOTES: _____

S&EC recommends the septic installer and/or applicant calls 811 to locate any buried utilities prior to any site work. Any and all subsurface utilities (water, sewer, cable, irrigation, power, telephone, etc.) were located by the applicant and/or applicant's legal representative before Soil & Environmental Consultants, PA (S&EC) conducted any site work. The applicant assumes all responsibility for any damage that occurs if the locations of utilities are not clearly marked and/or any inaccurately marked utilities prior to any commencement of work. Applicant/client understands that they are solely responsible for the proper identification and labeling of all property lines & corners and making the site accessible so that a complete soils/site evaluation, field septic layout(s), and septic installation can be performed.

The attached septic site plan for this lot must ensure that adequate soil area for septic initial and repair systems are unaffected by site elements (building placement, driveway, parking lots, wells, patios, decks, sidewalks, etc.) on this or adjacent lots. The septic area ultimately designated by S&EC on the attached septic site plan for the septic initial and repair area(s) (before or after installation) must remain undisturbed (no mechanical clearing, excavation, heavy traffic or other significant site disturbing activities) until authorized to install the septic system. An area with initially adequate useable soil may be rendered unusable as a result of improper site planning and/or disturbance. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) or similar machinery may be used for the septic installation. Buildings, structures, footings, driveways, parking areas, wells, porches, patios, and/or pools should NOT be placed in the septic areas after installation.

The site plan was provided to S&EC by the applicant and/or applicant's representative. It is the responsibility of the client to have the site plan approved by the local county and/or city zoning/building department(s). S&EC's work associated with the private septic permit process does not constitute the approval of any zoning, planning, building, and/or well approvals necessary by county agencies and/or state permitting agencies. The site plan for this lot shows all the proposed improvements to the lot as provided by the client/applicant. If the information in this permit is falsified, changed, or if the site is altered, then the permit and any authorization to construct shall become invalid. S&EC recommends that anyone making financial commitments on a property be fully aware of the individual permit requirements on the property prior to final action.

Any septic installer/contractor working on this project must have a valid septic installer certification from the North Carolina Onsite Wastewater Contractor Inspector Certification Board (NCOWCICB). All septic tanks must have an NC approved septic tank filter that can support the wastewater flow from this facility. Do not install septic drain lines or components under wet or unfavorable conditions. Final landscaping of the septic area(s) shall be constructed to divert surface water away from septic areas and establish a vegetative cover.

A garbage disposal is not permitted on this septic system unless indicated by a wastewater engineer in writing and provided to S&EC. Do not dispose of fats, oils, greases, feminine hygiene products, "flushable" wipes, paper towels, or condoms in the facility drains/septic system unless indicated by a wastewater engineer in writing and provided to S&EC.

Soil & Environmental Consultants, PA (S&EC) was authorized right of entry to the property by the applicant and/or applicant's representative to conduct necessary soils/site evaluations and field septic layout(s) to determine compliance and prepare the septic permit per 15 A NCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems" and county on-site wastewater regulations. Applicant/client understands that they are solely responsible for S&EC right of entry onto the property if the property is not currently owned by the applicant/client. This septic permit and associated work with this project are for the exclusive use of the addressee and the use or reliance by all others is expressly denied without the written consent of S&EC. This septic permit is not valid until it is submitted and approved by the applicable county health department through a private consultant septic permitting process.

Applicant Name and Contact Person:
KB HOME RALEIGH DURHAM, RACHEL CAYALEAR

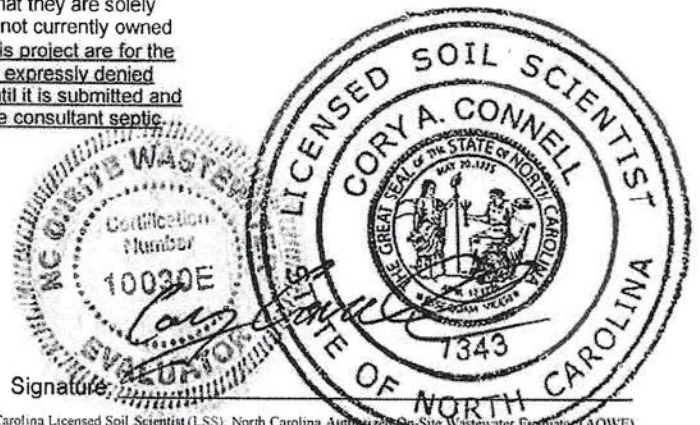
Property Address: 468 THORNY BRANCH DRIVE

Tax Parcel #/PIN: 1607969538

County: WAKE Acres: 0.61

Subdivision: SAULS GLEN Lot #: 56

Wastewater Daily Design Flow (GPD): 360



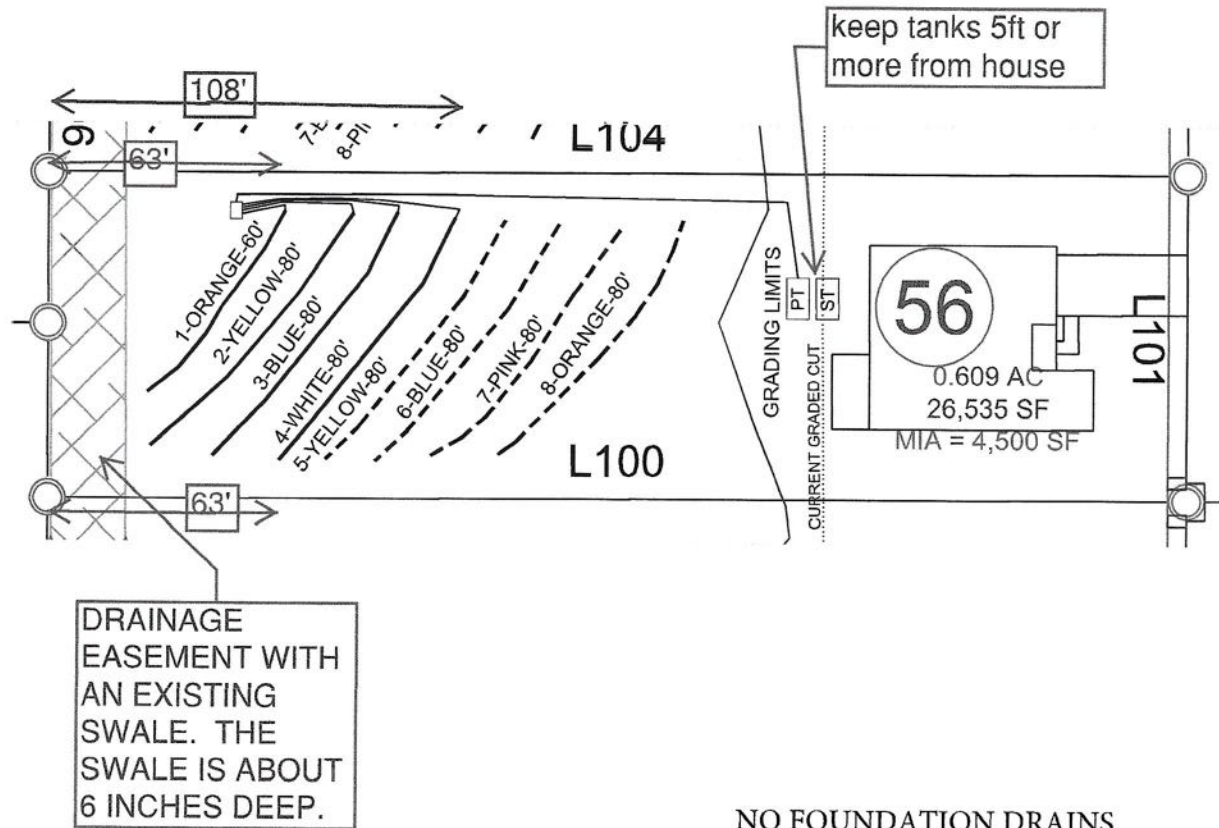
North Carolina Licensed Soil Scientist (LSS), North Carolina Authorized On-Site Wastewater Engineer (AOWE)

Date: 4-27-2023

S&EC Contact Name CC

Project Number 13287

Project Name: SAULS GLEN LOT 56



GRAPHIC SCALE
1" = 50'

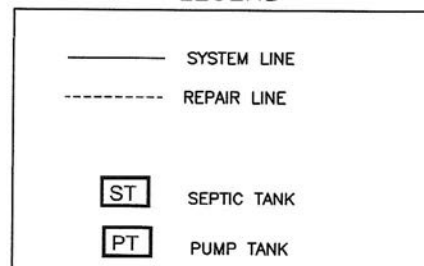


NOTES:

- 1) SITE DATA TO INCLUDE PROPERTY BOUNDARIES, STRUCTURE LOCATION, UTILITIES, ROADS, AND OTHER SITE FEATURES WERE PROVIDED BY THE SURVEYOR AND ARE SHOWN TO DISPLAY GENERAL SITE CONDITIONS.
- 2) ALL SEPTIC SYSTEM COMPONENTS TO INCLUDE TANKS, PUMPS, MANIFOLDS, AND SYSTEM AND REPAIR LINES HAVE BEEN GPS LOCATED BY SOIL AND ENVIRONMENTAL CONSULTANTS, PA. ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS ARE APPROXIMATE AND AS SUCH NO SPECIFIC ACCURACY EITHER VERTICAL OR HORIZONTAL IS IMPLIED.
- 3) THIS MAP AND CORRESPONDING SITE EVALUATION IS NOT CONFORMANT TO THE ENGINEERED OPTION PERMIT (EOP) PROCESS OR LSS OPTION PERMIT PROCESS. ADDITIONAL SITE TESTING AND EVALUATIONS WILL BE REQUIRED TO UTILIZE THE EOP OR LSS OPTION PROCESS.
- 4) PROPERTY AND EASEMENT BOUNDARIES SHOWN ON THIS SITE SKETCH ARE APPROXIMATE AND ARE NOT INTENDED FOR LOCATING PROPERTY OR IDENTIFYING PROPERTY OR EASEMENT CORNERS. THIS IS NOT A SURVEY. 4-28-2023

3-BEDROOM PRESSURE MANIFOLD SYSTEM
LINES 1-4 0.3 LTAR 25% REDUCTION PRODUCT
3-BEDROOM PRESSURE MANIFOLD REPAIR
LINES 5-8 0.3 LTAR 25% REDUCTION PRODUCT

LEGEND



S&EC

Soil & Environmental Consultants, PA

8412 Falls of Neuse Rd., Suite 104 • Raleigh, North Carolina 27615 • www.SandEC.com
Phone: (919) 846-5900 • Fax: (919) 846-9467

Project: SAULS GLEN SUBDIVISION, LOT 56 468 THORNY BRANCH DRIVE		Project No.: 13287	
Location: WAKE CO., NC	Client: KB HOME RALEIGH DURHAM	Project Manager: RP	Drawn: CC, JM
Sheet Title: SEPTIC SYSTEM & REPAIR LAYOUT		Scale: 1"=50'	Field Work: CC, JM
		Sheet No.: 1 of 1	

RBPR-099901-2023



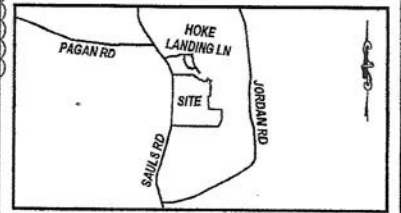
H/L 2022, E.C. 10RD-1012

LOT INFORMATION:

PIN: 1007969536
TOTAL LOT AREA = 0.609 AC = 26,535 SF
HOUSE = 2,535 SF
PORCH = 80 SF
SIDEWALK = 48 SF
DRIVEWAY = 500 SF
PATIO = 200 SF
HARDWARE IMPERVIOUS = 4,380 SF
PROPOSED IMPERVIOUS = 3,427 SF
PERCENT IMPERVIOUS = 12.92%

Bateman Civil Survey Company

Engineers • Surveyors • Planners
2324 Redwood Avenue, Apex, NC 27539 P: 919.577.1080 F: 919.577.1081
www.batemancivilsurvey.com info@batemancivilsurvey.com
NCBLS Firm No. C-5378



VICINITY MAP
(Not to Scale)

Required Setbacks	
Front	30
Side	10
Rear	30
Corner	

LEGEND

PO = PORCH
P = PATIO
SP = SCREENED PORCH OR PATIO
CP = COVERED PORCH OR PATIO
WD = WOOD DECK
SW = SIDEWALK
DW = CONC DRIVEWAY
B = COMPUTED POINT
IP = IRON PIPE FOUND
WM = WATER METER
CO = CLEANOUT
AC = AIR CONDITIONER
EB = ELECTRIC BOX
CB = CABLE BOX
TP = TELEPHONE PEDESTAL
LP = LIGHT POLE
C = CURB INLET
YI = YARD INLET
FH = FIRE HYDRANT
WV = WATER VALVE
SM = SEWER MANHOLE

1. STEVEN P. CARSON, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY DIRECT SUPERVISION FROM A SURVEY MADE UNDER MY SUPERVISION (PLAT BOOK 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. DATED: _____

BUILDING SETBACKS:

FRONT = 15 ft
SIDE = 5 ft
REAR = 15 ft

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

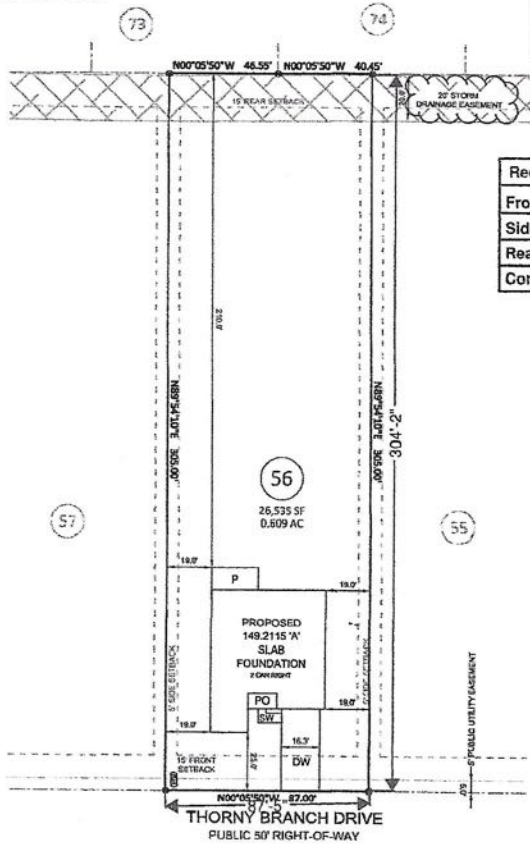
PRELIMINARY PLOT PLAN FOR KB HOMES

SAULS GLEN LOT 56
468 THORNY BRANCH DRIVE, RALEIGH, NC
RAINTHER CREEK TOWNSHIP, WAKE COUNTY

DATE: 3/17/23 DRAWN BY: AHB CHECKED BY: SPC
REFERENCE: 10M 2022, PGS. 1010-1014 PROJECT# 220358 SCALE: 1" = 40'

NOTES:

- THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF STEVEN P. CARSON, PLS.
- THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
- 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.
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
- THIS MAP IS NOT FOR RECORDATION AND SHOULD BE REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.
- THE BASIS OF NORTH AND ALL EASEMENTS, RIGHTS-OF-WAYS, BUFFERS, SETBACKS AND ADJOINERS, ETC. REFERENCED IN TITLE BLOCK.
- NO INVESTIGATION INTO THE EXISTENCE OF JURISDICTIONAL WETLANDS OR RIPARIAN BUFFERS PERFORMED BY THIS FIRM.
- 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.
- UPON EXAMINATION OF FLOOD INSURANCE RATE MAPS, PANEL NUMBERS 1607J & 1617K OF COMMUNITY NUMBER 37052 (WAKE COUNTY), BEARING MAP #3720160700K & BEARING MAP #3720161700L, BOTH DATED 7/19/2022, A PORTION OF THE SUBJECT PROPERTY LIES IN ZONE "A1" AND "X" SHADDED, WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE AND FUTURE CONDITIONS 1% ANNUAL CHANCE FLOODPLAIN.
- ZONING IS R-30(C) CLUSTER.
- PROPERTY OWNER: KB HOMES RALEIGH DURHAM INC. 4506 S. MIAMI BLVD, #100 DURHAM, NC 27703



SCALE: 1" = 40'