

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED UNTIL AN
AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED
***PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR
INTENDED USE CHANGED***

OPERATIONS PERMIT

PERMIT # WRP-039731-2020 **APPLICATION DATE:** 06/15/2020 **BLDG. PERMIT#:** RBPR-039730-2020
PIN: 0780512387 **RECORDED:** Yes
TOWNSHIP: 18 - Swift Creek **JURISDICTION:** Wake County **ZONING:** R-40W
APPLICANT: Terramor Homes
Tracey Davis
7208 Falls of Neuse RD St. 201
BUSINESS PHONE: (919) 497-2163
HOME PHONE:
MOBILE PHONE: (919) 497-2163
HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE **EXISTING USE:**
SITE ADDRESS: 2113 ORCHARD LAKE DR
SUBDIVISION: Senter Farm PH 2 **LOT:** 66 **ACRES:** 0.69
DIRECTIONS: off Blaney Franks Road Apex

Systems defined as either type III-b, III-g with a pump, IV, V or VI, in accordance with the North Carolina administrative code 15A NCAC 18a .1961, table V as adopted by reference in the "Regulations Governing Wastewater Treatment Dispersal Systems in Wake County", requires Wake County Environmental Services to conduct periodic inspections of the system type pursuant to 15A NCAC 18a. 1961 (j). Fees for these inspections will be charged as per the approved Fee Schedule. In addition, all systems are to be operated and maintained as specified in 15A NCAC 18A .1961. This permit is based in part on information provided by the homeowner and/or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The environmental health specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him/her in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

OPERATION PERMIT VALID FOR: No Expiration

INSTALLED BY: BRANTLEY, CORY - 1036 - IV

PROPRIETARY SYSTEM: EZ1203HG - EZFlow EZ 1203H Geo **PRETREATMENT SYSTEM:**

SYSTEM TYPE INSTALLED: II A

OPERATION PERMIT: **STATUS:** Issued

ISSUED BY: Alexander Merrell

ISSUED DATE: 09/04/2020

SEPTIC TANK: David Brantley & Sons - STB-323 - 1250 gallons **DATE OF MANUFACTURE:** 05/14/2020 **FILTER:** GAG SIM/TECH - STF-110

GREASE TRAP:

DATE OF MANUFACTURE:

FILTER:

DOSING PUMP TANK:

DATE OF MANUFACTURE:

FILTER:

CC1: **ETM1:**

CC2:

ETM2:

RECIRCULATION TANK:

DATE OF MANUFACTURE:

CC1: **ETM1:**

CC2:

ETM2:

SEPTIC TANK ELEVATION: 4.00

GREASE TRAP ELEVATION:

DOSING PUMP TANK ELEVATION:

RECIRCULATION TANK ELEVATION:

DISTRIBUTION DEVICE ELEVATION: 10

INSTALLED TRENCH DEPTH	INSTALLED AGGREGATE DEPTH	INSTALLED TRENCH LENGTH	INSTALLED TRENCH BOTTOM ELEVATION
18	12	130	12.1667
18	12	135	13.4583
18	12	135	14.9583

ACTUAL PRESSURE HEAD:

ACTUAL FLOW RATE:

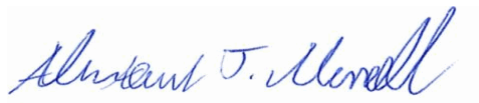
ACTUAL DOSE VOLUME: 0

SPECIFIC OPERATION REQUIREMENTS:

480 GPD design flow

4 bedroom single family residence

ISSUED BY:



DATE: 09/04/2020

RBPR-039730-2020

WAKE COUNTY N.C. P.D.I.
AS-BUILT SURVEY REQUIRED



SITE PLAN APPROVED BY
WAKE COUNTY N.C. P.D.I.
Dawn Tripp
06/15/2020 3:47:17 PM

LOT INFORMATION:

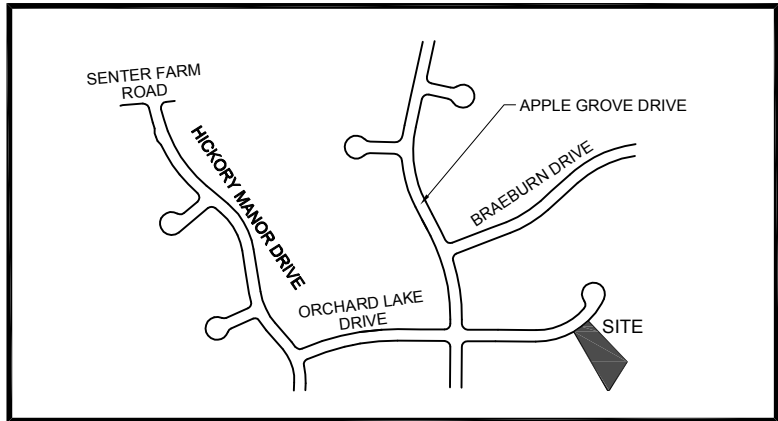
PARCEL ID: 0469630
PIN: 0780512387
TOTAL LOT AREA = 0.69 AC = 30,100 SF
MAXIMUM IMPERVIOUS = 6,500 SF
PROPOSED IMPERVIOUS = 4,206 SF
HOUSE = 2,254 SF
SCREENED PORCH = 247 SF
PORCH = 298 SF
SIDEWALK = 144 SF
DRIVEWAY = 1,263 SF
PERCENT IMPERVIOUS = 13.97%



Bateman Civil Survey Company

Engineers • Surveyors • Planners

2524 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 = PORCH
P = PATIO
SP = SCREENED PORCH OR PATIO
CP = COVERED PORCH OR PATIO
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I, STEVEN P. CARSON, 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-4752
DATED:

BUILDING SETBACKS:

FRONT = 15 ft
REAR = 15 ft
SIDE = 7.5 ft
CORNER = 15 ft
PERIMETER = 30 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

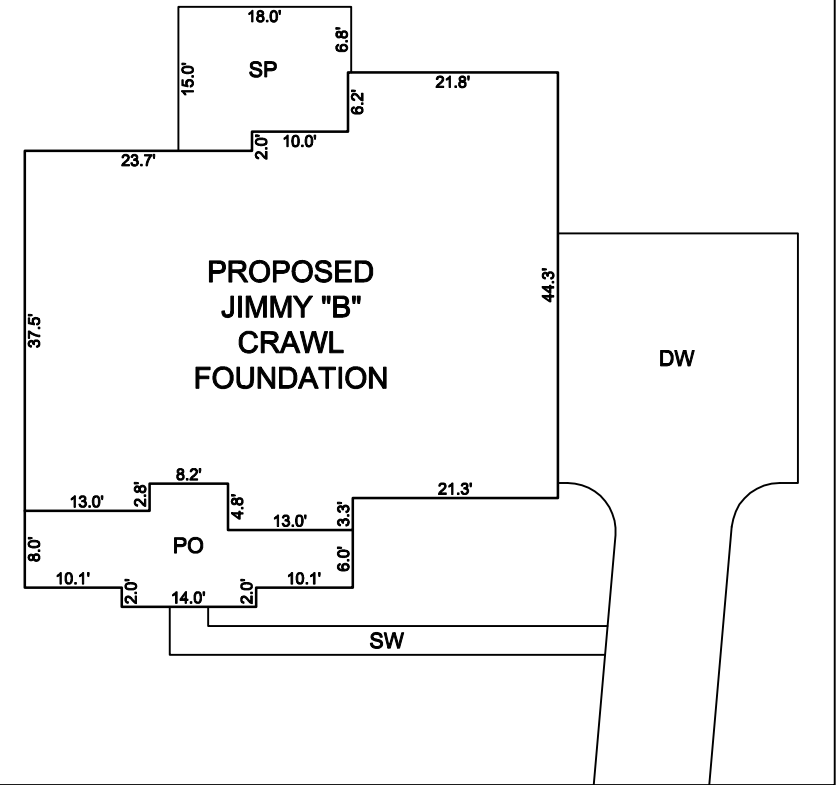
PRELIMINARY PLOT PLAN
FOR



SENER FARM - PHASE 2 - LOT 66
2113 ORCHARD LAKE DRIVE, APEX, NC
SWIFT CREEK TOWNSHIP, WAKE COUNTY

DATE: 5/20/20 DRAWN BY: ASF CHECKED BY: SPC

REFERENCE: BM 2019, PGS 1400-1402 PROJECT# 170470 SCALE: 1"=40'

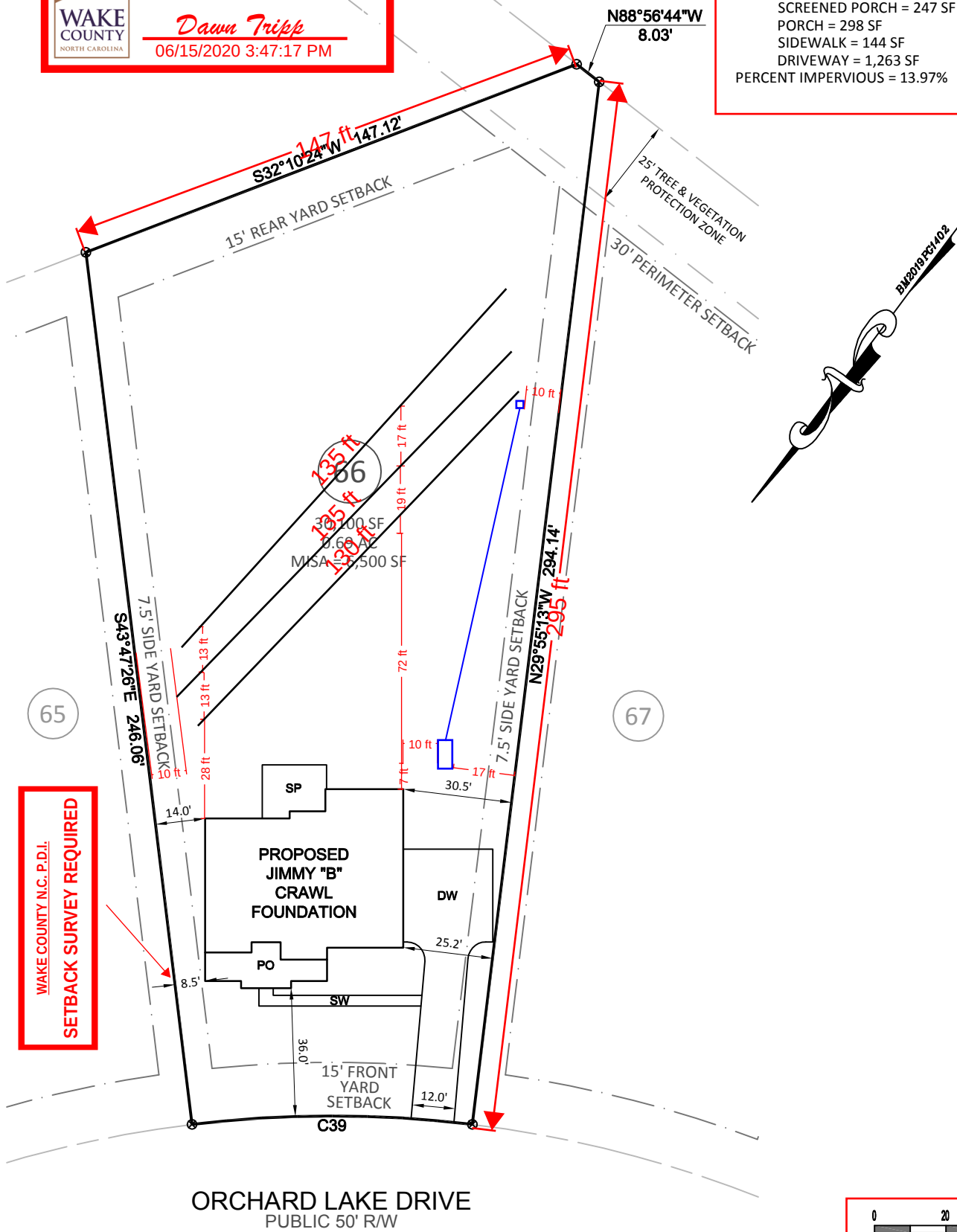


INSET SCALE: 1"=20'

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.
- THE PROPERTY LIES IN ZONE "X" PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBER 3720078000J, DATED MAY 2, 2006.
- EASEMENTS FOR INSTALLATION AND MAINTENANCE OF UTILITIES AND DRAINAGE FACILITIES ARE RESERVED OVER 10' AT REAR AND 5' ON EACH SIDE LINE OF EACH LOT.
- ZONING IS R-40W
- PROPERTY OWNER: TERRAMOR HOMES, LLC.
7208 FALLS OF NEUSE RD, STE 201
RALEIGH, NORTH CAROLINA 27615

CURVE TABLE				
CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
C39	325.00'	78.68'	N53°08'41"E	78.49'



0 20 40
SCALE:
1" = 40 ft.

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CONSTRUCTION AUTHORIZATION PERMIT**PERMIT # WRP-039731-2020****APPLICATION DATE:** 06/15/2020**BLDG. PERMIT#:** RBPR-039730-2020**PIN:** 0780512387**RECORDED:** Yes**TOWNSHIP:** 18 - Swift Creek**JURISDICTION:** Wake County**ZONING:** R-40W**APPLICANT:** Terramor Homes7208 Falls of Neuse RD St. 201
Raleigh, NC 27615**BUSINESS PHONE:** (919) 497-2163**HOME PHONE:****MOBILE PHONE:** (919) 497-2163**HD USE:** 101A CONVENTIONAL ONE-FAMILY HOUSE**EXISTING USE:****SITE ADDRESS:** 2113 ORCHARD LAKE DR**SUBDIVISION:** Senter Farm PH 2**LOT:** 66**ACRES:** 0.69**DIRECTIONS:** off Blaney Franks Road Apex

Contractors shall install system on contour. See attached SITE PLAN for wastewater system design and well location. No underground utilities, water lines or sprinklers systems may be located in the original system, or permit areas. A septic tank filter with two risers for access is required. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and Operations Permit issued. An Accepted Status System may be used in place of conventional system, if it can be placed in the permitted/authorized trench footprint (except reduction in line length and/or number as allowed for in approval) and the installation in accordance with the accepted system approval, without unauthorized product alteration. If permit required use of an Accepted Status System, substitution with another accepted status system may be made, as long as no changes are necessary in the location of each nitrifications line (including any increase in line length), trench depth or effluent distribution method. If changes are necessary, prior approval by this office is required before system installation. Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

CONSTRUCTION AUTHORIZATION PERMIT VALID FOR: Five Years**CONSTRUCTION AUTHORIZATION PERMIT: CA STATUS:** Issued**BY:** Adrienne Holloway**DATE:** 07/09/2020**CA VALID FOR:** Five Years**DESIGN FLOW:** 480 GALLONS**BASEMENT:** No**BASEMENT FIXTURES:** No**SEPTIC TANK:** 1200 GALLONS**SEPTIC TANK FILTER:** Yes**DOSING PUMP TANK:****DOSING PUMP TANK FILTER:****GREASE TRAP:****GREASE TRAP FILTER:****RECIRCULATION PUMP TANK:****RECIRCULATION PUMP TANK FILTER:****PROPOSED SYSTEM:** 0.25 - 25% Reduction (Innovative or Accepted)**EXISTING SYSTEM:****DRAINFIELD SQ. FT:** 1,197**AGGREGATE DEPTH:** 12**MAX. TRENCH DEPTH:** 18 INCHES**DISTRIBUTION DEVICE:** GP - Gravity Parallel**TRENCH #:** 3**TRENCH LENGTH:** 133 FEET**TRENCH WIDTH:** 36 INCHES**TOTAL TRENCH LENGTH:** 399 FEET**CENTER SPACING:** 9 FEET**MINIMUM SOIL COVER:** 6 INCHES**PRETREATMENT:****APPROVAL #:**

SUBFIELDS #:

PUMP TDH:

PUMP DESIGN FLOW:

ZONE VALVE: No

ASDMS REQUIRED:

LINE OF CREDIT REQUIRED:

OPERATOR REQUIRED:

P.E. SIGN OFF/ASBUILT REQUIRED:

TRIPARTY AGREEMENT REQUIRED:

SPECIFIC CONSTRUCTION AUTHORIZATION REQUIREMENTS:

- System is designed for 4-bedroom SFD, using 480 gallons per day.
- Repair is a type IIA system, with a maximum trench depth of 18" and a 0.3 LTAR.
- Site serviced by community water.
- No cutting, grading, alterations, or utilities in septic area.
- Maintain all required setbacks.
- Any deviation from accepted design must be approved by the consultant and WCES prior to system installation.
- If drain line flags are removed, contact consultant to reflag.
- House has a partial foundation drain.
- All property lines must be fully marked at time of installation or reinspection will be required.
- Please contact Adrienne Holloway at 919-422-3751 or Adrienne.Holloway@wakegov.com with any questions prior to or during installation.

Issued By:

Handwritten signature of Adrienne Holloway in black ink, with the letters 'REHS' written in a separate, bold, sans-serif font to the right of the signature.

Date: 07/09/2020

RBPR-039730-2020

WAKE COUNTY N.C. P.D.I.
AS-BUILT SURVEY REQUIRED



SITE PLAN APPROVED BY
WAKE COUNTY N.C. P.D.I.
Dawn Tripp
06/15/2020 3:47:17 PM

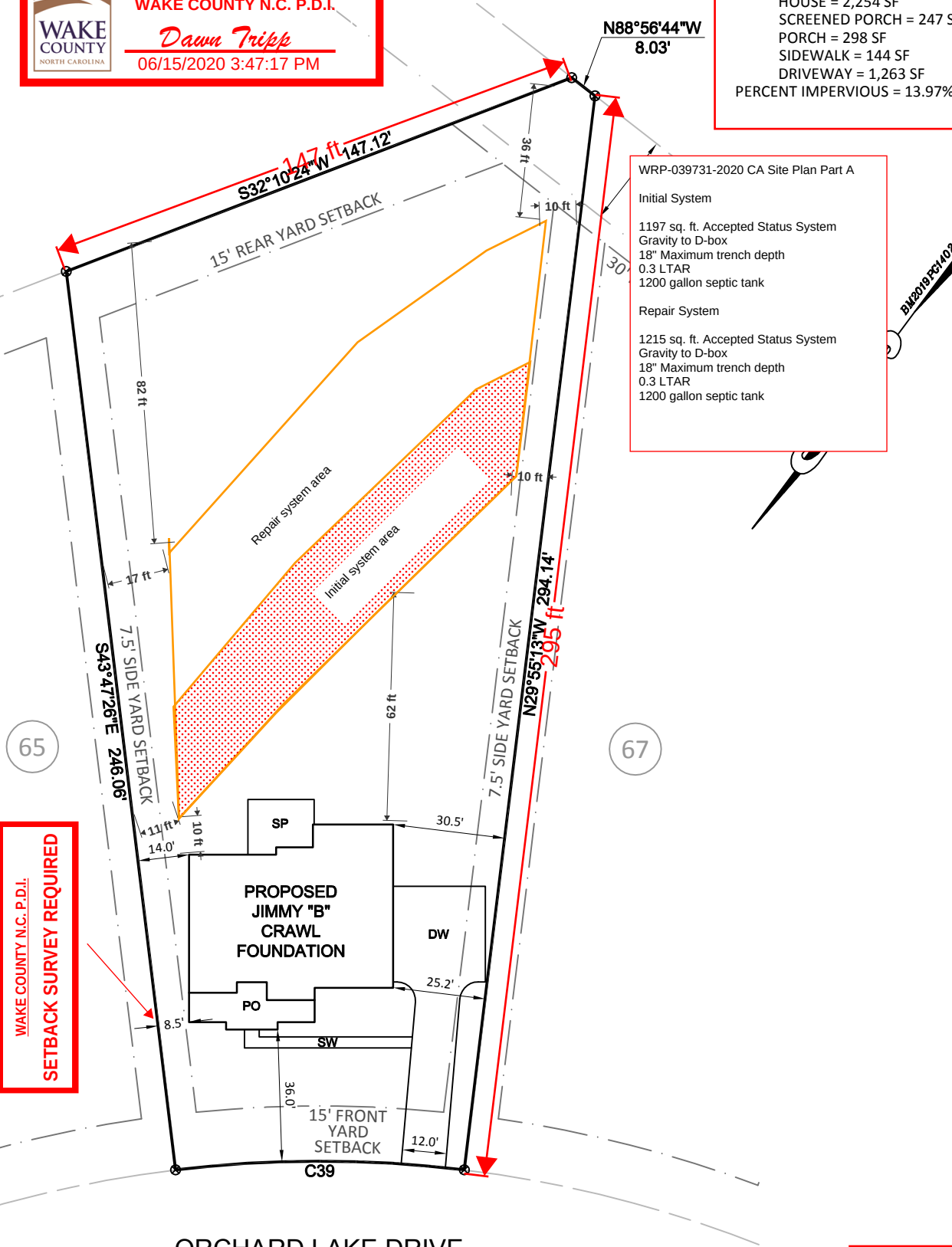
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WRP-039731-2020 CA Site Plan Part A

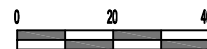
Initial System
1197 sq. ft. Accepted Status System
Gravity to D-box
18" Maximum trench depth
0.3 LTAR
1200 gallon septic tank

Repair System
1215 sq. ft. Accepted Status System
Gravity to D-box
18" Maximum trench depth
0.3 LTAR
1200 gallon septic tank

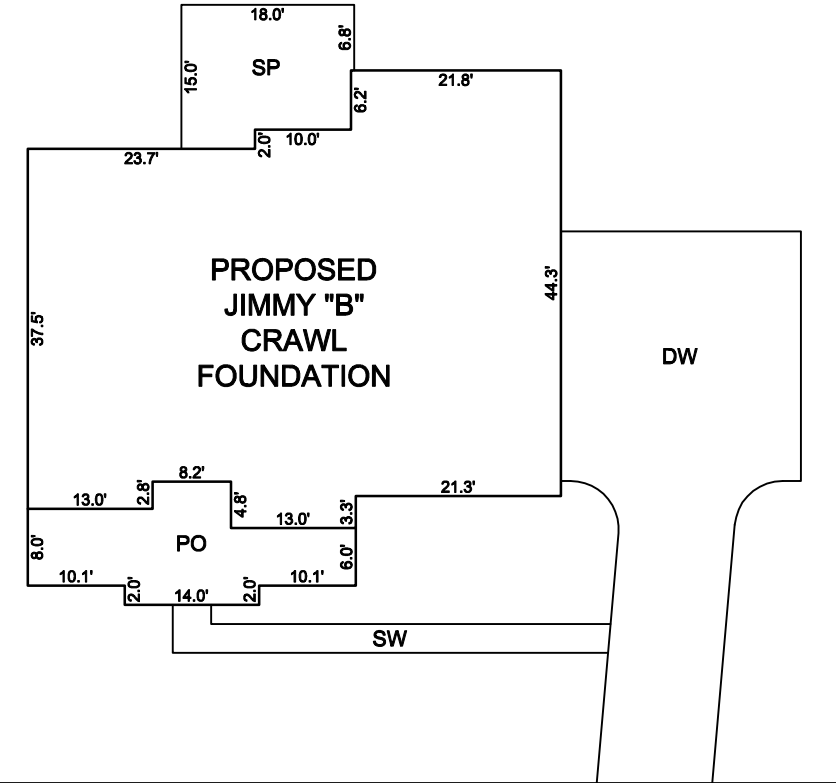


WAKE COUNTY N.C. P.D.I.
SETBACK SURVEY REQUIRED

ORCHARD LAKE DRIVE
PUBLIC 50' R/W



SCALE:
1" = 40 ft.



INSET SCALE: 1"=20'

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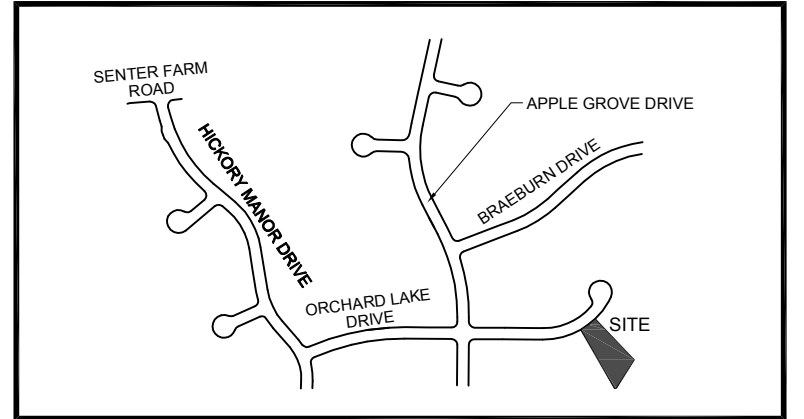
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NCBELS Firm No. C-2378



VICINITY MAP

(Not to Scale)

LEGEND

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IMPERVIOUS NOTED ON THIS PLOT PLAN

PRELIMINARY PLOT PLAN

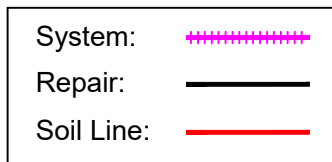
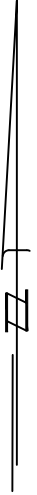
FOR



SENER FARM - PHASE 2 - LOT 66
2113 ORCHARD LAKE DRIVE, APEX, NC
SWIFT CREEK TOWNSHIP, WAKE COUNTY

DATE: 5/20/20 DRAWN BY: ASF CHECKED BY: SPC

REFERENCE: BM 2019, PGS 1400-1402 PROJECT# 170470 SCALE: 1"=40'



- *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.
- *No cutting within septic area.

GRAPHIC SCALE
1" = 50'



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

4-Bedroom Septic Layout
Lot 66, Senter Farm Subdivision
Wake County, North Carolina

Job# : 1933
Drawn By : AH
Date : 06/19/2020
Revision:



Environmental Services

TEL 919 856 7400
FAX 919 856 7407

Water Quality Division
336 Fayetteville St. • P.O. Box 550 • Raleigh, NC 27602
www.wakegov.com/water/

Foundation Drain Request Form

Wastewater Permit: WRP-039731-2020 Building Permit: RBPR-039730-20200780512387

Parcel PIN: 0780512387

Project (Site) Address: 2113 Orchard Lake Drive, Apex, NC 27539

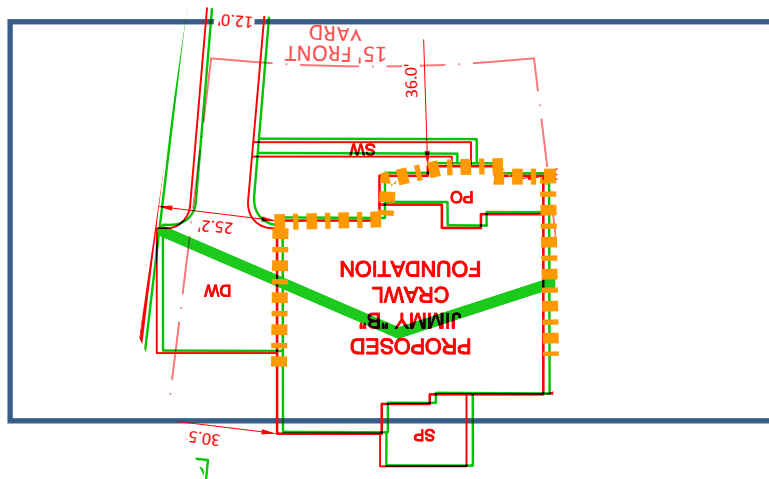
PLEASE CIRCLE:

Foundation Drain? YES NO **PARTIAL (demonstrate below)**

If PARTIAL FOUNDATION DRAIN is circled, please demonstrate where the foundations drain will be located on the diagram below, (add decks, patios, etc. as needed)

Front

Foundation drains allowed in areas highlighted with dashed lines



Rear

Applicant Signature: *Shazany Davis* Date: 7-9-2020

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IMPROVEMENT PERMIT

PERMIT #: WRP-039731-2020

APPLICATION DATE: 06/15/2020

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PIN: 0780512387

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BUSINESS PHONE: (919) 497-2163

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EXISTING USE:

SITE ADDRESS: 2113 ORCHARD LAKE DR

SUBDIVISION: Senter Farm PH 2

LOT: 66

ACRES: 0.69

DIRECTIONS: off Blaney Franks Road Apex

Permit is subject to revocation if the Site Plan or Plat changes or the intended use changes.

*Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

IP VALID FOR: Five Years AS PER GS 130A-335 (f)

DESIGNED BY: 8

SYSTEM LAYOUT: Private Sector

SITE CLASSIFICATION: Provisionally Suitable

IP STATUS: Issued

BY: Adrienne Holloway

DATE: 07/09/2020

NUMBER OF BEDROOMS: 4

OR TOTAL NUMBER OF OCCUPANTS: 4

PERMITTED DESIGN FLOW: 480 GPD

BASEMENT: No

BASEMENT PLUMBING: No

WASTEWATER STRENGTH: Domestic

SYSTEM TYPE: II A

LTAR: 0.300

EXISTING SYSTEM UTILIZED:

PRETREATMENT STRENGTH REQUIRED: None

EASEMENT FOR WW SYSTEM ASSOCIATED WITH PARCEL: No

MAXIMUM TRENCH DEPTH: 18 INCHES

PUMP REQUIRED: No

SPECIFIC SYSTEM REQUIREMENTS: -System is designed for a 4-bedroom SFD, using 480 gallons per day.

-Repair is a type IIA system, with a maximum trench depth of 18" and a 0.3 LTAR.

-Site serviced by community water.

-No cutting, grading, alterations, or utilities in septic area.

-Maintain all required setbacks.

ISSUED BY:

Abdulla REHS

DATE: 07/09/2020

RBPR-039730-2020

WAKE COUNTY N.C. P.D.I.
AS-BUILT SURVEY REQUIRED



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WAKE COUNTY N.C. P.D.I.
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PERCENT IMPERVIOUS = 13.97%

WRP-039731-2020 IP Site Plan
Initial System - Type IIA
Repair System - Type IIA

WAKE COUNTY N.C. P.D.I.
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ORCHARD LAKE DRIVE
PUBLIC 50' R/W

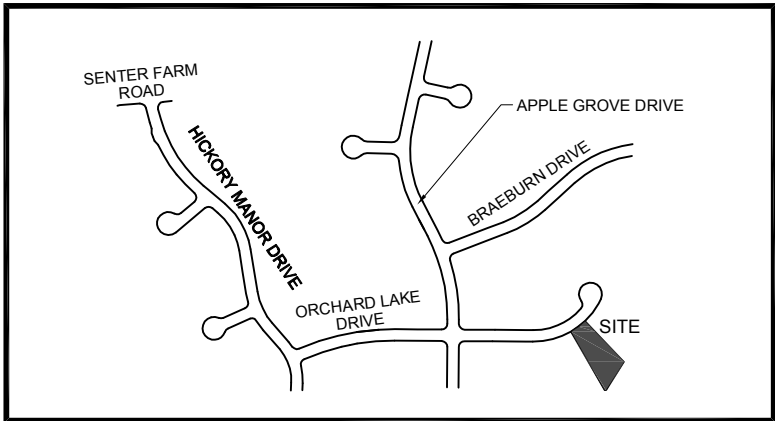
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P = PATIO
SP = SCREENED PORCH OR PATIO
CP = COVERED PORCH OR PATIO
WD = WOOD DECK
SW = SIDEWALK
DW = CONC DRIVEWAY
⊗ = COMPUTED POINT
⊙ = IRON PIPE FOUND
⊙ = IRON PIPE SET
⊙ = WATER METER
CO = CLEANOUT
AC = AIR CONDITIONER
EB = ELECTRIC BOX
CB = CABLE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

I, STEVEN P. CARSON, 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-4752
DATED:

BUILDING SETBACKS:

FRONT = 15 ft
REAR = 15 ft
SIDE = 7.5 ft
CORNER = 15 ft
PERIMETER = 30 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



SENER FARM - PHASE 2 - LOT 66
2113 ORCHARD LAKE DRIVE, APEX, NC
SWIFT CREEK TOWNSHIP, WAKE COUNTY

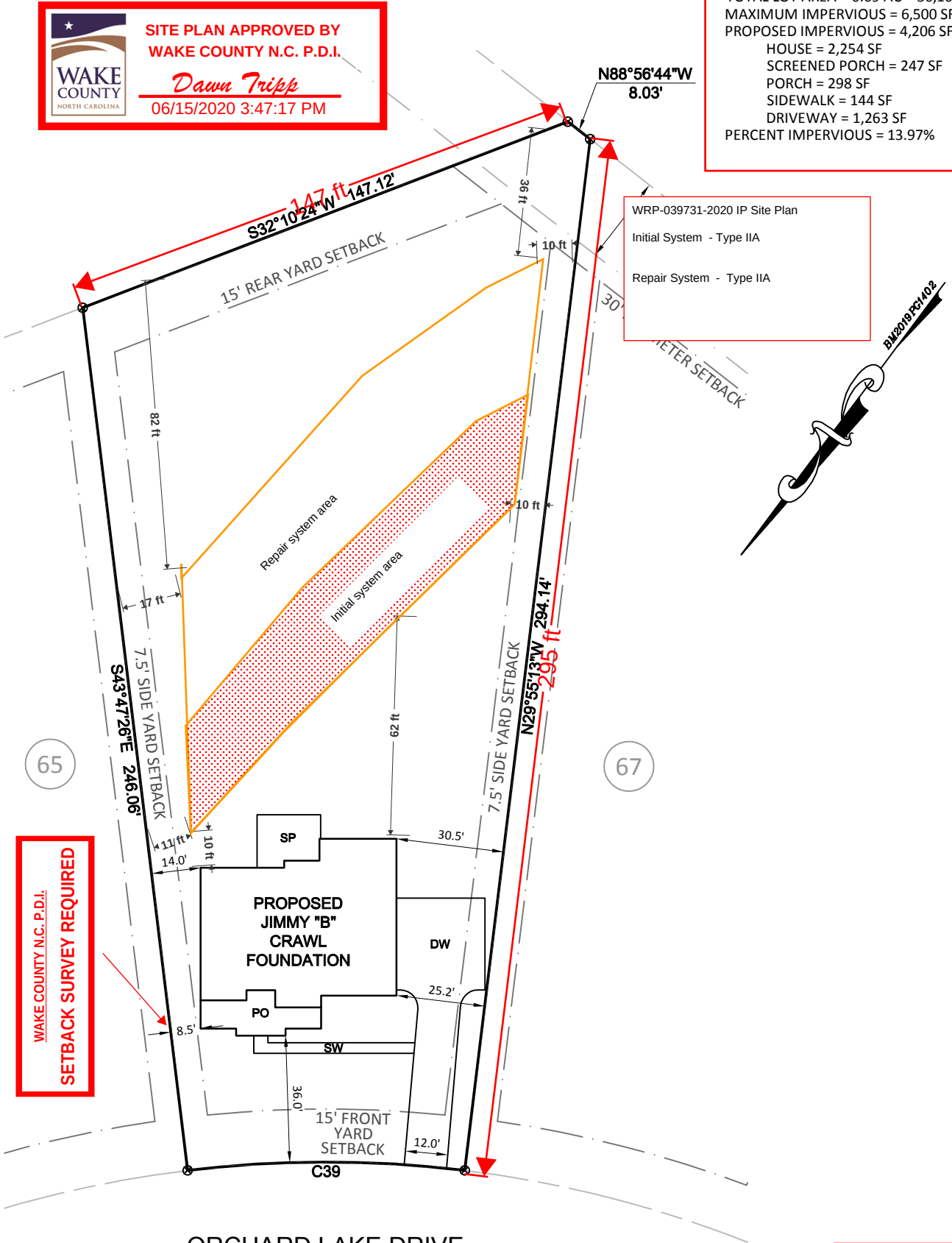
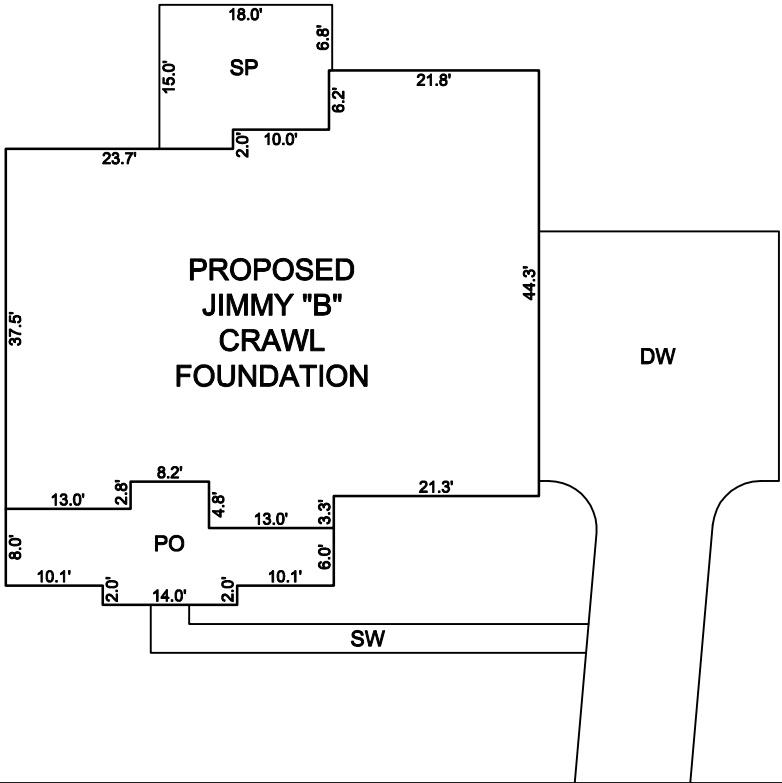
DATE: 5/20/20 DRAWN BY: ASF CHECKED BY: SPC

REFERENCE: BM 2019, PGS 1400-1402 PROJECT# 170470 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.
- THE PROPERTY LIES IN ZONE "X" PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBER 3720078000J, DATED MAY 2, 2006.
- EASEMENTS FOR INSTALLATION AND MAINTENANCE OF UTILITIES AND DRAINAGE FACILITIES ARE RESERVED OVER 10' AT REAR AND 5' ON EACH SIDE LINE OF EACH LOT.
- ZONING IS R-40W
- PROPERTY OWNER: TERRAMOR HOMES, LLC.
7208 FALLS OF NEUSE RD, STE 201
RALEIGH, NORTH CAROLINA 27615

INSET SCALE: 1"=20'



CURVE TABLE				
CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
C39	325.00'	78.68'	N53°08'41"E	78.49'