



Improvement Permit for Wastewater Systems
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: MARCH 17, 2030

New

Owner: KAY AND WILLIAM BUCKNER **Applicant:** SURVEY CAROLINA
911 Address: TBD BOWER STORE ROAD, SILER CITY
Parcel Number: 11981 PARENT - TRACT 3
Acres: 3.753
Subdivision Name: N/A
Subdivision Lot: N/A

FACILITY

Facility Type: Single Family Dwelling
Number of Bedrooms: 5 **Number of Occupants:** 10 **Other:** n/a
Design Flow: 600 GPD **Design Wastewater Strength:** Domestic
Type of Water Supply: Private Well

INITIAL SYSTEM

System Type: Ila - Conventional, ≤ 750 linear feet **Trench Product:** Conventional Gravel
LTAR: 0.25 GPD/ft² **Effluent Standard:** DSE **Saprolite System:** No **Fill System:** No
Tank(s) Size with Risers and Effluent Filter: ST 1,250 Gal **PT** N/A Gal
Nitrification Line: **Length:** 670 ft. **Width:** 3 ft. **Max Trench Depth:** 20 in. on downslope sidewall
Artificial Drainage Required: No **If yes, type/details:** n/a

REPAIR SYSTEM

System Type: Ila - Conventional, ≤ 750 linear feet **Trench Product:** Conventional Gravel
LTAR: 0.25 GPD/ft² **Effluent Standard:** DSE **Saprolite System:** No **Fill System:** No
Max Trench Depth: 16 in. on downslope sidewall
Artificial Drainage Required: No **If yes, type/details:** n/a

Drainfield locations meet requirements of Rule .0508: Yes **Drainfield locations meet requirements of Rule .0601:** Yes

SPECIAL CONDITIONS:

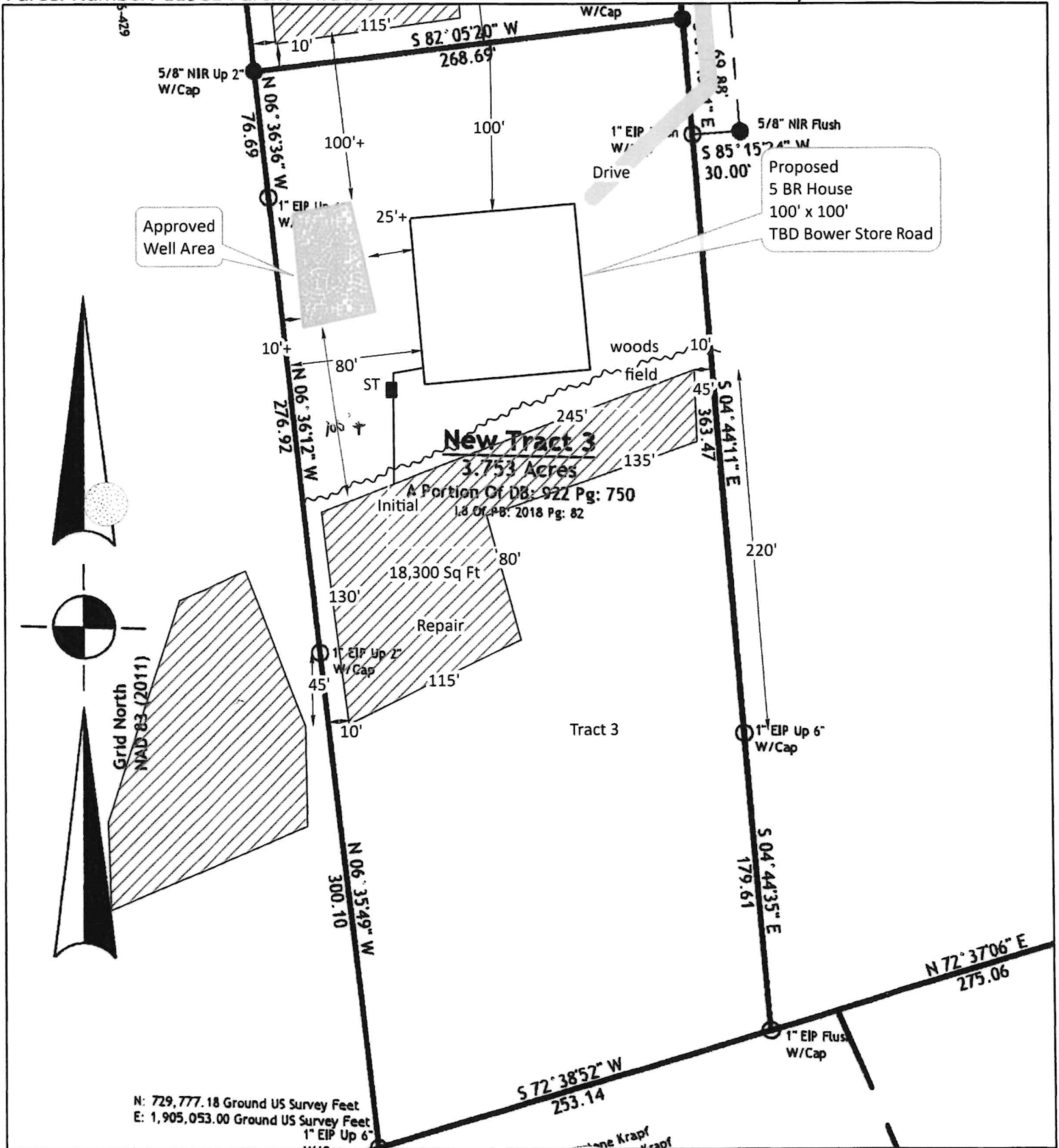
This permit is valid for five years but is subject to revocation if the site plan, plat, or the intended use changes or if the site is altered, soil disturbed, or setbacks violated. The issuance of this permit in no way guarantees the issuance of other permits. The permit holder is responsible for verifying with appropriate governing bodies in meeting their requirements. 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. A department issued accompanying site plan must be attached to be valid. A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.

Issued by: Ray Mildsh NC Registration #: 2977 Date: 3/11/2025
Ray Mildsh – Registered Environmental Health Specialist

Improvement Permit Site Map ¹/₂

Parcel Number: 11981 Parent - Tract 3

Owner: Kay and William Buckner



Legend

- Approved Well Area
- Approved System Area



0 20 40 80 120 160 Feet

Author: *Ray Nichols*

Date: *3/17/2025*

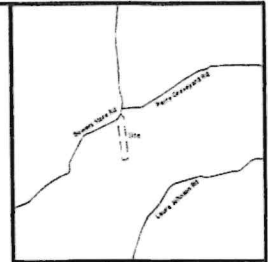
IMPROVEMENT PERMIT SITE PLAN 3/2 PN: 11981 PARENT TRACT 2#03

1 AND

WILLIAM AND VIRGINIA

BUCKNER

Roy Capitol
3/17/25



Location Map
(NOT TO SCALE)

- Notes:**
- This project is not located within a special flood hazard area per HCFMS Map # 171972020K. Effective Date: 11/17/2017
 - Area calculated by coordinate geometry.
 - All lines surveyed by Survey Carolina, PLLC are indicated by solid lines. All lines not surveyed by Survey Carolina, PLLC are indicated by dashed lines.
 - No attempt was made by this survey to locate all underground utilities nor any other easements that would be revealed by a title search.
 - AKPA: 11981
 - Zoning: R1
 - Water: NS-P-A
 - County Water is Not Available

I, Dan W. Tanner II, certify that this map was drawn under my supervision from an actual GPS/GNSS survey made under my supervision and the following information was used to perform the survey:

- (1) Class of survey: Class A
- (2) Positional accuracy: $\pm 0.10'$
- (3) Type of GNSS field procedure: Real-Time Kinematic Networks
- (4) Date of survey: February 14, 2025
- (5) Datum/EPOCH: NAD83(2011) / 2010.00
- (6) Published/Field-control use: North Carolina Real Time Network
- (7) Geoid model: GRS12
- (8) Combined grid factor(s): 0.9999877
- (9) GPS/GNSS Scale Point: NAD83(2011) / 2010.00
- (10) Units: US Survey Feet

STATE OF NORTH CAROLINA

I, Review Officer of Chatham County, certify that the map or plat to which this certification is affixed meets all statutory requirements for recording.

Date: Review Officer

APPROVAL FOR MINOR SUBDIVISIONS
I hereby certify that the subdivision plat shown hereon is a minor subdivision and has been found to comply with the subdivision regulations for Chatham County. The plat has been approved for recording in the Office of the County Register of Deeds.

Director of Planning or Authorized Agent

CERTIFICATION OF OWNERSHIP AND DEDICATION
I (we) hereby certify that I am (we are) the owner(s) of the property shown and described hereon and that I (we) hereby adopt this plan of subdivision with my (our) free consent, and dedicate all right-of-ways, streets, alleys, easements, parks, and other open spaces to public or private use as noted.

Owner(s)

Owner(s)

Development or redevelopment of a Minor Subdivision or an individual residential lot cumulatively exceeding 20,000 square feet of land disturbance shall comply with Section 165.045 (E) (d) and (e) [formerly Section 400 (5) (d) and (e)] of the Chatham County Stormwater Ordinance.

Jurisdictional and permanence of the features shown has been determined by Chatham County. Required buffers were measured landward from the outer limit of jurisdiction. Chatham County Watershed Protection Ordinance provides descriptions of allowable uses within protected buffer areas. Lot number(s) 2-3 & A is subject to Chatham County buffer requirements.

Parent tract not subject to buffer.

Minor Subdivision on parcel #11981 was reviewed and approved as an Expedited Subdivision. No Subdivider shall use the Expedited Subdivision process on any portion of the parent tract or resultant lots for a period of ten (10) years from the date of recordation of the final plat.

Owner Signature

Owner Signature



I, Dan W. Tanner II, Professional Land Surveyor, certify:

In accordance with NC General Statute 47-30(f)(1)a That the survey creates a subdivision of land within the area of a county or municipality that has an ordinance that regulates parcels of land.

I, Dan W. Tanner II, certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description recorded in:

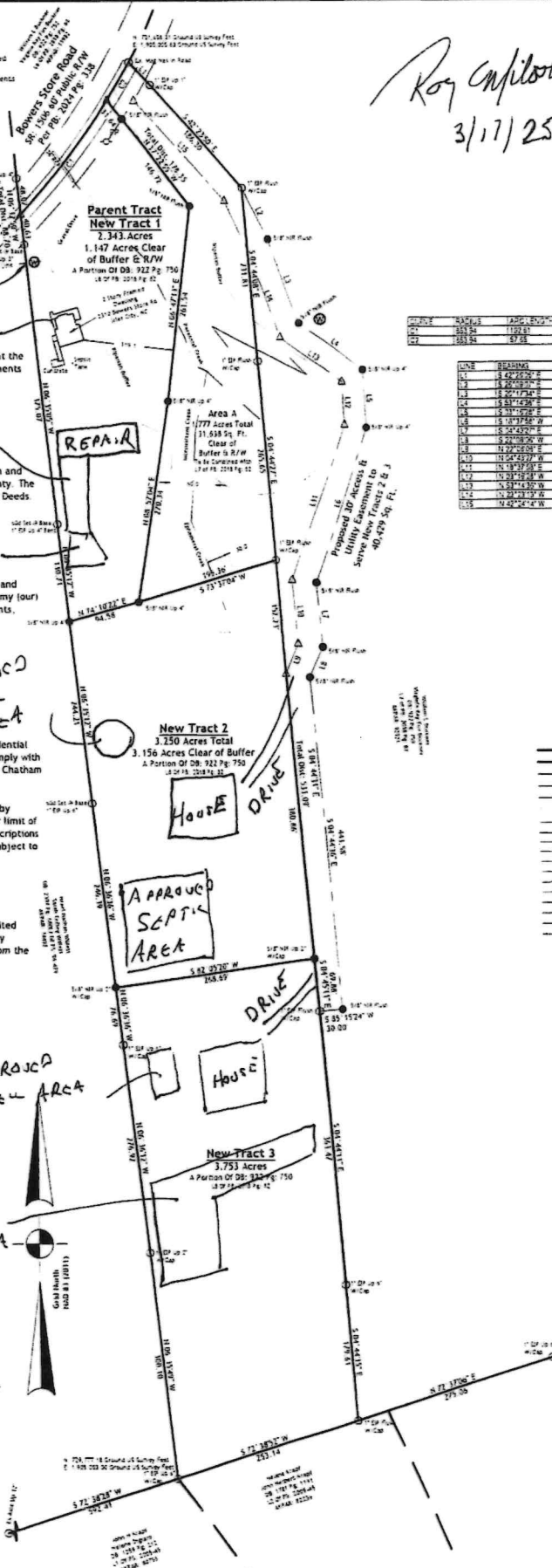
Book 922, page 750.

that the boundaries not surveyed are clearly indicated as drawn from information found in Book 922, page 750; that the ratio of precision or positional accuracy as calculated is: 1:10000; that this plat was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, license number and seal this the 18th day of February, A.D., 2025.

PRELIMINARY PLAT - NOT FOR RECORDATION, CONVEYANCES, OR SALES

Professional Land Surveyor

L-4757



| CHANCE | RADIUS | ARC LENGTH | CHORD LENGTH | CHORD BEARING | CHORD ANGLE |
|--------|--------|------------|--------------|---------------|-------------|
| 1 | 100.00 | 1.5708 | 100.00 | N 0° 0' 0" E | 180° 0' 0" |
| 2 | 100.00 | 1.5708 | 100.00 | N 0° 0' 0" E | 180° 0' 0" |

| LINE | BEARING | DISTANCE |
|------|----------------|----------|
| 1 | S 42° 25' 0" E | 40.54 |
| 2 | S 89° 15' 0" E | 11.33 |
| 3 | S 89° 15' 0" E | 11.33 |
| 4 | S 89° 15' 0" E | 11.33 |
| 5 | S 89° 15' 0" E | 11.33 |
| 6 | S 89° 15' 0" E | 11.33 |
| 7 | S 89° 15' 0" E | 11.33 |
| 8 | S 89° 15' 0" E | 11.33 |
| 9 | S 89° 15' 0" E | 11.33 |
| 10 | S 89° 15' 0" E | 11.33 |
| 11 | S 89° 15' 0" E | 11.33 |
| 12 | S 89° 15' 0" E | 11.33 |
| 13 | S 89° 15' 0" E | 11.33 |
| 14 | S 89° 15' 0" E | 11.33 |
| 15 | S 89° 15' 0" E | 11.33 |

- Hardwood Tree
- Evergreen Tree
- Stone
- R/W - Right of Way Measurement
- RPS - Railroad Spine
- NS - New Iron Road
- NSP - New Iron Pipe
- NGSS - New Gas
- EN - Existing Haul
- EB - Existing Iron Road
- EP - Existing Iron Pipe
- EC - Existing Concrete
- Bench Mark
- Computed Point / Point Not Set
- Well
- Transformer
- Property Line
- Compacted Property Line
- Right of Way Line
- Easement Line
- Tie Lines
- Seaback Lines
- Gas Line
- Sanitary Sewer Line
- Storm Sewer Line
- Water Line
- Fence
- Overhead Utility Line
- Overhead Power Line
- Underground Electric Line
- Underground Gas Line
- 100-Year Flood Hazard Line
- Flowway
- C/L Railroad
- Catch Basin
- Ford Inlet
- Storm Sewer Manhole
- Junction Box
- Drop Inlet
- Irrigation Control Valve
- Back Flow Preventer
- Water Valve
- Water Manhole
- Water Meter
- Fire Dept. Connection
- Fire Hydrant
- Utility Pole
- Telephone Pedestal
- Telephone Pole
- Sanitary Sewer
- SS - Sanitary Sewer
- SS Manhole
- SS Power Box
- PP - Power Pole
- Light Pole
- Gas Valve
- Gas Manhole
- Gas Meter
- Electric Meter
- Electric Manhole
- 2.00 foot Elevation

Owners:
William L. Buckner
Virginia Kay Fox Buckner
2310 Bowers Store Rd
Siler City, NC 27344

Expedited Subdivision Survey For:
William L. Buckner & Virginia Kay Fox Buckner

Hickory Mountain Township Chatham County
North Carolina February 18, 2025

Deed Book: 922 Pg: 750

Plat Book: 2018 Pg: 82

Scale: 1" = 100 US Survey Feet

Bar Scale:



SURVEY CAROLINA, PLLC
154 S. Fayetteville St., Suite B, Asheville, NC 27203
Phone Number: 336.625.8000
Email: mail@surveycarolina.com

Firm #: P-1110
Dan W. Tanner II L-4757
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Drawn By: AJS Checked By: DWT Job #: 16036

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNER: KAY AND WILLIAM BUCKNER DATE EVALUATED: 2/17/25
ADDRESS: 2310 BOWEN STREET ROAD TO BE SUBDIVIDED
PROPOSED FACILITY: 200 SF Downspout PROPOSED DESIGN FLOW (.0400): 200 GPD PROPERTY SIZE:
LOCATION OF SITE: PROPERTY RECORDED:
WATER SUPPLY: Public Single Family Well Shared Well Spring Other WATER SUPPLY SETBACK:
EVALUATION METHOD: Auger Boring Pit Cut TYPE OF WASTEWATER: Domestic High Strength IPWW

| # | .0502 LANDSCAPE POSITION SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY | | OTHER PROFILE FACTORS | | | | .0509 PROFILE CLASS & LTAR* | .0502 SLOPE CORREC TION | | |
|------------|---|---------------------------|--------------------------------|------------------------------------|-----------------------------------|------------------------|-------------------------|-------------------------|--------------------------------------|----------------------------------|---|-----|
| | | | .0503 STRUCTURE/ TEXTURE | .0503 CONSISTENCE MINERALOGY | .0504 SOIL WETNESS COLOR | .0505 SOIL DEPTH | .0506 SAPRO CLASS | .0507 RESTR HORIZ | | | | |
| 201 203 | 25 | 0-40 | sbk c | fr 5c | - | SAP | - | - | 5 | 0.275 | 4 | |
| | 8-10 | | | | | 40" | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 202 | 45 | 0-26 | sbk c | | - | Exp | - | - | 5 | 0.275 | 4 | |
| | 8-10 | 26 | m c | vfi Exp | | | | | | | | 26" |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 204 | 45 | 0-40 | sbk c | fr 5c | - | PM | - | - | 5 | 0.3 | 3 | |
| | 6-8 | | | | | | | | | | | 40 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 205 | 45 | 0-20 | sbk c | fi/vfi 5c | - | Exp | - | - | 5 | 0.2 | 3 | |
| | 6-8 | | | | | | | | | | | 20 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM | SITE CLASSIFICATION (.0509): S |
|-------------------------|----------------|---------------|--|
| Available Space (.0508) | ✓ | ✓ | |
| System Type(s) | II | II | EVALUATED BY: RAY MURPHY |
| Site LTAR | TRACT 1: 0.5 | TRACT 3: 0.25 | OTHER(S) PRESENT: JOHN GRAY, RUFUS JOHNSON |
| Maximum Trench Depth | | | |
| Comments: | | | |

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Page 2 of 2

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

PROPERTY ID #: 11981 PARENT - TRAC
DATE OF EVALUATION: 2/12/25
COUNTY: CHATHAM

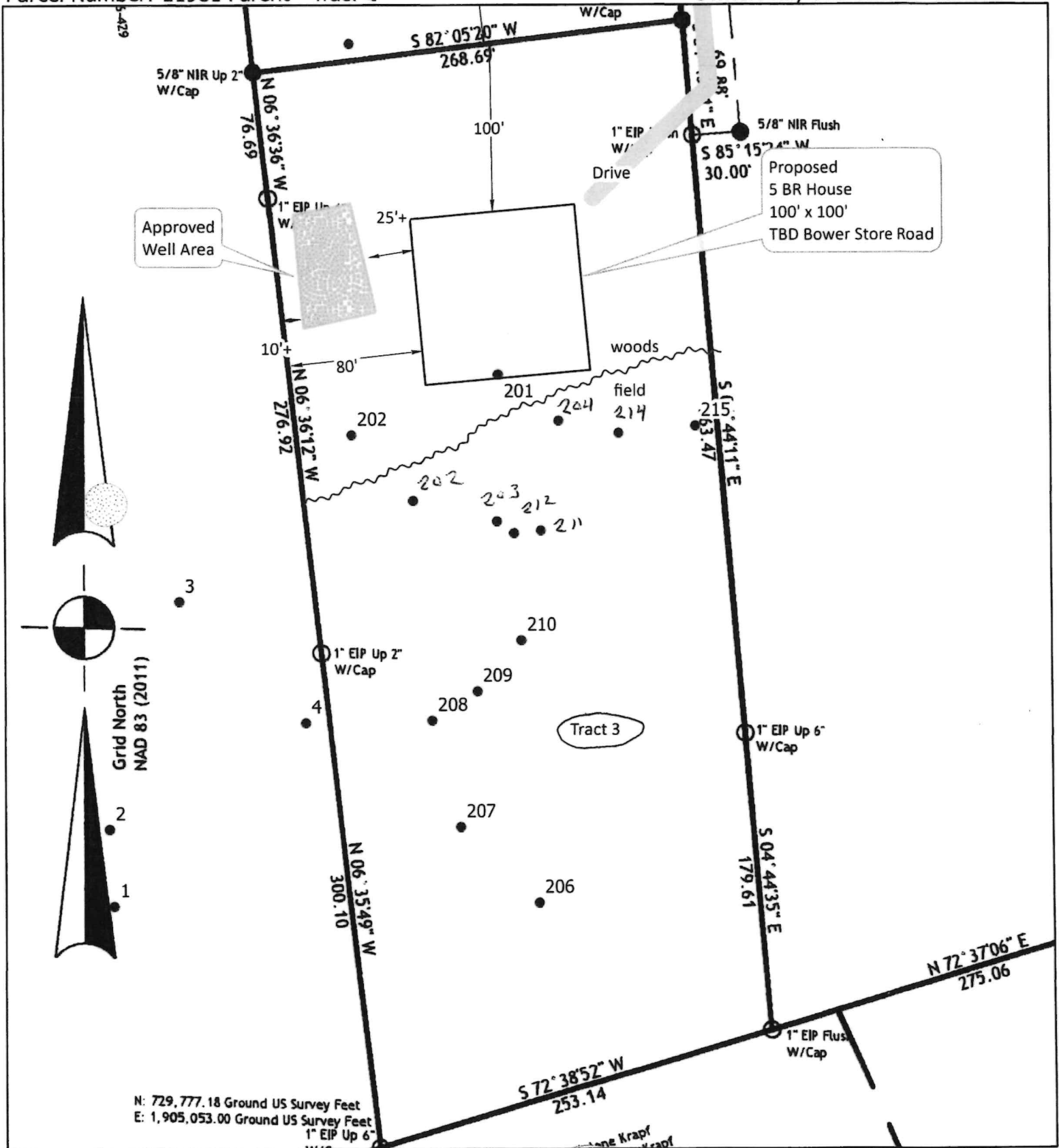
| # | .0502 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY | | OTHER PROFILE FACTORS | | | | .0509 PROFILE CLASS & LTAR* | .0502 SLOPE CORREC TION |
|----------------|--|---------------------------|--------------------------------|-------------------------------------|------------------------------------|------------------------|-------------------------|-------------------------|--------------------------------------|----------------------------------|
| | | | .0503 STRUCTURE/ TEXTURE | .0503 CONSISTENCE/ MINERALOGY | .0504 SOIL WETNESS/ COLOR | .0505 SOIL DEPTH | .0506 SAPRO CLASS | .0507 RESTR HORIZ | | |
| 206 | LS 2-5 | 0-30 | sbk c | fi SE | WATER IN HOLE | - | - | - | S 0.25 | 2 |
| 210 | | | | | | | | | | 10 |
| 207 | LS 6-8 | 0-12 12 | sbk c | fi fi | - | 2p 12" | - | - | J | 3 |
| 208 | LS | 0-32 | sbk c | fr | - | 2p 32 | - | - | S 0.275 | 2 |
| 209 | 2-5 | | sbk c | fi | | | | | | 18 |
| 211 | LS 2-5 | 0-16 | sbk u | fr SE Exp | - | 2p 16 | - | - | J | - |
| 212 | LS | 0-20 | sbk c | fi SE | - | 2p | - | - | S 0.25 | 2 |
| 213 | 2-5 | | | | | 2p | | | | 15 |
| 214 | LS | 0-36 | sbk c | fi SE | WET | - | - | - | S 0.25 | 2 |
| 215 | 2-5 | 0-34 | | | 34 | | | | | 20 |

COMMENTS:

Improvement Permit Site Map - Soil Boring Locations

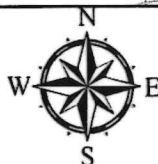
Parcel Number: 11981 Parent - Tract 3

Owner: Kay and William Buckner



Legend

- Auger Boring Sites
- Approved Well Area



0 20 40 80 120 160 Feet

Author: *Ray C. Miller*

Date: 3/17/25

