

# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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12 December 2016

Ms. Linda Thomas Johnson  
14326 Salverdale Drive  
Dale City, Virginia 22193

Reference: Final Report for Comprehensive Soil Investigation  
Linda Johnson Property - 5.302 Acres

Dear Ms. Johnson,

A comprehensive soil investigation has been conducted at the above referenced property, located on the eastern side of Hoover Road (SR 1210), Barbecue Township, Harnett County, North Carolina. The purpose of the investigation was to determine the ability of this lot to support a subsurface sewage waste disposal system and repair area for a typical three-bedroom home. All soil ratings and determinations were made in accordance with "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900". This report represents my professional opinion as a Licensed Soil Scientist but does not guarantee or represent permit approval for any lot by the local Health Department. An improvement permit will need to be obtained from the Health Department that specifies the proposed home size and location, and the design and location of the septic system to be installed. It is our understanding that individual septic systems and public water supplies will be utilized at this site. The maximum house footprint used for this evaluation was 50 X 50 feet. Wetlands were not observed in the investigated portion of the property.

A portion of this lot was observed to be underlain by soils rated as provisionally suitable for subsurface sewage waste disposal. These provisionally suitable soils were observed to be firm silty clay loams to about 12 to 18 inches below surface. Loam textured saprolite materials were observed to greater than four feet. These materials appear adequate to support long term acceptance rates of 0.3 gal/day/sqft for conventional drainlines. The above referenced regulations require that pits be dug to properly evaluate these type materials. So please be advised that the health department will likely require you to provide a backhoe or other equipment to excavate pits when you apply for your permit to build. It appears that the soils on this lot are adequate to support a conventional septic system and repair area for at least one residence.

This soil investigation report and map, when provided to the Harnett County Health Department, should allow them to sign the maps for recordation. I appreciate the opportunity to provide this service and hope to be allowed to assist you again in the future. If you have any questions or need additional information, please contact me at your convenience.



Sincerely,

A handwritten signature in cursive script that reads "Hal Owen".

Hal Owen  
Licensed Soil Scientist

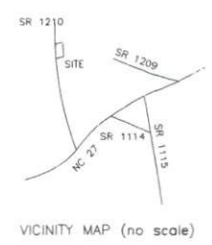
LEGEND

- CM - CONCRETE MONUMENT SET
- CP - EXISTING CONCRETE MONUMENT
- EP - EXISTING IRON PIPE
- ES - EXISTING IRON STAKE
- ERB - EXISTING REBAR
- ELCS - EXISTING COTTON SPIKE
- EPK - EXISTING PK NAIL
- EN - EXISTING NAIL
- ERS - EXISTING RAILROAD SPIKE
- IRS - IRON PIPE SET
- ISS - IRON STAKE SET
- RSS - RAILROAD SPIKE SET
- NS - NAIL SET
- PKS - PK OR MAG NAIL SET
- R/W - RIGHT OF WAY
- CL - CENTERLINE
- B.M. - BOOK OF MAPS
- M.B. - PLAT BOOK
- M.E. - MAP BOOK
- D.B. - DEED BOOK
- SB - SET BACK
- EP - EDGE PAVEMENT
- NCCS - NORTH CAROLINA GEODETIC SURVEY
- ECSS - EXISTING COTTON SPINDLE
- CSS - COTTON SPINDLE SET
- D - DRAINAGE
- G - GAS LINE
- S - SANITARY SEWER
- W - WATER
- E - ELECTRIC
- T - TELEPHONE
- FH - FIRE HYDRANT
- WM - WATER METER
- WV - WATER VALVE
- CD - SEWER CLEANOUT
- TP - TELEPHONE PEDESTAL
- UP - UTILITY POLE
- EL - ELEVATION
- MH - MANHOLE
- BC - BACK OF CURB
- HMAC - HEAT/AC UNIT
- CP - COMPUTED POINT

CALLS ALONG ROAD CENTERLINE

COURSE	BEARING	DISTANCE
L-1	N 00°09'43"W	54.75'
L-2	N 00°11'49"E	54.78'
L-3	N 00°54'51"E	56.35'
L-4	N 01°14'52"E	47.41'

BONNIE P. THOMAS  
D.B. 2298 PG. 715  
PIN # 9577-77-9020.000  
9577-77-9020.000  
RESIDUAL - 20 ACRES +/-



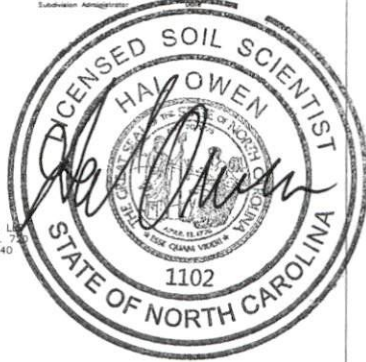
HARNETT COUNTY JURISDICTION  
PROPERTY ZONED RA-20R  
MINIMUM BUILDING SETBACKS  
FRONT - 35'  
SIDE - 10'  
REAR - 25'  
CORNER - 20'

NOTES

AREA BY COORDINATES.  
THIS PROPERTY IS NOT LOCATED IN A FEMA  
MAPPED FLOOD HAZARD AREA. FEMA MAP #  
371055800A; ZONE X, EFF. DATE  
10/3/2006.  
SUBJECT TO ABOVE AND/OR UNDERGROUND  
UTILITIES AND/OR EASEMENTS.

I hereby certify that the development depicted herein has been  
granted final approval from Harnett County (E-911 Addressing,  
Environmental Health, Planning, Public Utilities, and the  
North Carolina Department of Transportation. This plat is subject  
to any and all conditions stated herein and is subject to  
recording in the Harnett County Register of Deeds within thirty  
days of the date below.

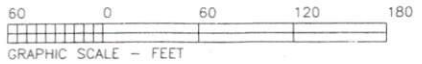
E-911 Addressing - \_\_\_\_\_  
Public Utilities (Not for Construction) - \_\_\_\_\_  
NCCOT - \_\_\_\_\_  
Subdivision Administrator - \_\_\_\_\_



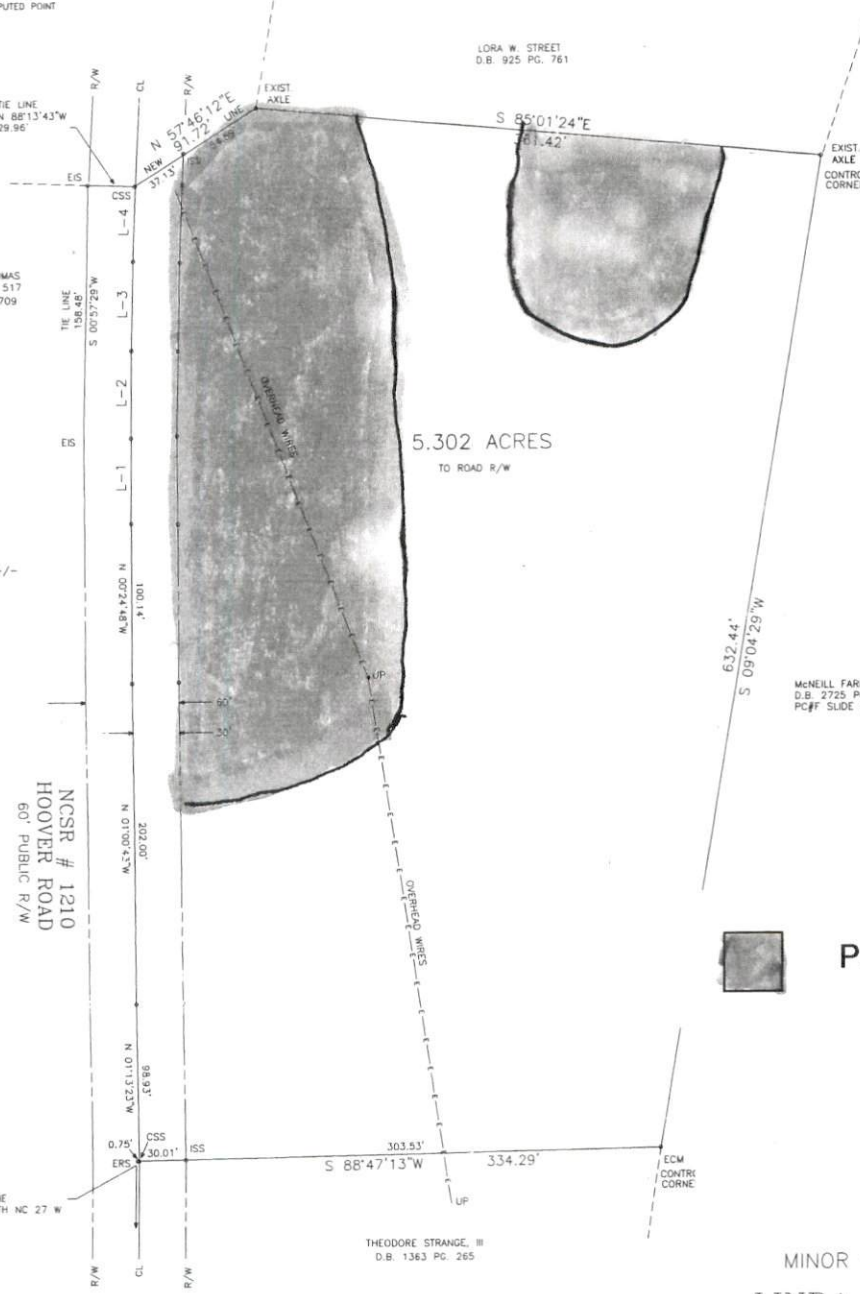
Provisionally Suitable Soil

All distances are Paced  
and Approximate.

MINOR SUBDIVISION FOR  
**LINDA T. JOHNSON**  
A PORTION OF DEED BOOK 2298 PAGE 715  
PIN # 9577-77-9020.000  
BARBECUE TOWNSHIP  
HARNETT COUNTY - NORTH CAROLINA  
SCALE : 1" = 60' - DECEMBER 5, 2016



BENTON W. DEWAR AND ASSOCIATES  
PROFESSIONAL LAND SURVEYOR  
5920 HONEYCUTT ROAD  
HOLLY SPRINGS, NC 27540  
PH. # (919)-552-9813



BONNIE P. THOMAS  
D.B. 2171 PG. 517  
MAP # 2005-709

BONNIE P. THOMAS  
D.B. 2298 PG. 715  
9577-77-9020.000  
RESIDUAL - 20 ACRES +/-

NCSR # 1210  
HOOVER ROAD  
60' PUBLIC R/W

THEODORE STRANGE, III  
D.B. 1363 PG. 265

REVIEW OFFICER'S CERTIFICATE  
STATE OF NORTH CAROLINA  
COUNTY OF \_\_\_\_\_ REVIEW OFFICER OF \_\_\_\_\_ COUNTY, CERTIFY  
THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION  
IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

REVIEW OFFICER  
DATE

I, BENTON W. DEWAR, PROFESSIONAL LAND SURVEYOR  
NO. 3040, CERTIFY:  
THAT THIS PLAT IS OF A SURVEY THAT CREATES A  
SUBDIVISION OF LAND, THAT IS REGULATED BY COUNTY  
OR MUNICIPALITY ORDINANCE THAT REGULATES  
PARCELS OF LAND.

BENTON W. DEWAR NCPLS - 3040

I, BENTON W. DEWAR CERTIFY THAT THIS PLAT WAS DRAWN UNDER  
MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY  
SUPERVISION; THAT THE RATIO OF PRECISION IS 1:  
THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES  
PLOTTED FROM INFORMATION FOUND IN BOOK  
PAGE \_\_\_\_\_ THAT THIS PLAT WAS PREPARED IN ACCORDANCE  
WITH G.S. 47-30 AS AMENDED; WITNESS MY ORIGINAL SIGNATURE  
LICENCE NUMBER AND SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_

BENTON W. DEWAR, NCPLS - 3040

HARNETT COUNTY  
NORTH CAROLINA  
FILED DATE \_\_\_\_\_ TIME \_\_\_\_\_

MAP NUMBER \_\_\_\_\_  
KIMBERLY S. HARGROVE  
REGISTER OF DEEDS

BY \_\_\_\_\_ DEPUTY

RECORDED MAP # 2016-\_\_\_\_\_ HARNETT COUNTY R.O.D.