Supervisor/Administrative Professional Checklist

New Septic ☑ **New Well** ☐ **Use Existing** ☐ **Alteration** ☐ **Modified Plot Plan** ☐

New Septic Fees Paid:

IP ($250.00) AAS 12/12/17 Initials/Date

CA ($200.00) AAS 10/29/18 Initials/Date

OP ($200.00) AAS 10/29/18 Initials/Date

(CA and OP fees need to be paid before a building permit can be issued)

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

Alteration Fee Paid: $300.00 (Total) $200 (If use existing was paid)_____ Initials/Date

Modified Plot Plan Fee Paid: $100.00 _____ Initials/Date

Floor plans need to be submitted and reviewed before CA can be issued. ☑ Reviewed ☑ JAM 11/30/18

This site is served by septic and well. Verify each is complete before final hold is released. ☑

Septic file completed. ☐ _____ Well file completed. ☐ _____

Send permit for signature. ☑ Signature received. ☑ _____

This septic system requires a certified operator contract before final hold is released. ☐

Certified operator contract is on file. ☐ _____

Groundwater & Wastewater Services: Septic Project File & D

GWS File #:	9898B
WASPS App #:	9348
Primary ES assigned to project:	Jacob Presley
Secondary ES assigned to project:	
Project Type:	New System
Site Evaluation Information: .1939(a)(1) - Topography and Landscape Position Recorded?	Yes
Site Evaluation Information: .1940(a-g) - Slope % Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Texture Class Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Structure Type Recorded?	Yes
Site Evaluation Information: .1939 (a)(2) - Consistence Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Mineralogy Recorded?	Yes
Site Evaluation Information: .1939(a)(3) - Soil Wetness Condition Recorded?	Yes
Site Evaluation Information: .1939(a)(4) - Soil Depth to Rock or Parent Material Recorded when Encountered?	Yes
Site Evaluation Information: .1939(a)(5) - Depth to Restrictive Horizons Recorded when Encountered?	N/A
Site Evaluation Information: .1939(a)(6) - Sufficient Available Space Recorded?	Yes
Site Evaluation Information: .1937(m) - Are the Profile Locations Shown?	Yes
Site Evaluation Information: .1939(a) - Are the S/PS Profiles in system & in repair area?	Yes
Site Evaluation Information: .1939(d), .1955, .1956, .1957 - LTAR	Yes
Improvement Permit/Construction Authorization: .1937(g), 130A-336(a) - Proposed System Type stated - Initial	Yes
Improvement Permit/Construction Authorization: .1945(b) - Proposed System Type stated - Repair	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(3) - System location identifiable by setbacks - Initial	Yes
Improvement Permit/Construction Authorization: .1937(g), .1945(b) - System components shown - Initial	Yes
Information Permit/Construction Authorization: .1945(b) - Repair area shown	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Does System design match facility, flow & WW characteristics?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is System design consistent with soil/site conditions?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is the System located in the approved area?	
Improvement Permit/Construction Authorization: 130A-336(a) - Number of Bedrooms, employees, seats, etc. indicated?	Yes
Improvement Permit/Construction Authorization: .1937 (g) - Trench depth correct?	Yes
Improvement Permit/Construction Authorization: .1937(g) - Trench width correct?	Yes
Improvement Permit/Construction Authorization: .19379(g) - Trench length correct?	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(1) - Proposed/existing well shown?	Yes

Improvement Permit/Construction Authorization: 130A-336(a)(1) - Property line lengths shown?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Facility/appurtenance setbacks shown from fixed points?	Yes
Corrections/modifications needed?	No
Comments:	
IA issued date:	
OP Issued date:	
Review performed by:	Jeremy Michael
Date performed:	10/19/2018

Created at 10/19/2018 11:06 AM by Michael, Jeremy
Last modified at 10/19/2018 11:06 AM by Michael, Jeremy

Close

9898B
#9348

MECKLENBURG COUNTY
HEALTH DEPARTMENT

DEC '17 PM 3:35

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. **SEPTIC / TYPE APPLICATION:** ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. **WELL / TYPE APPLICATION:** ○ N/A ◉ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. **JOB LOCATION INFORMATION:**

TAX PARCEL NUMBER: 217-241-32

STREET ADDRESS: ~~16421~~ Shallow Pond Rd. 16415

CITY: Charlotte

STATE: NC ZIP: 28278

SUBDIVISION NAME: _____

LOT #: _____ LOT SIZE (acres): 4.33

TOWNSHIP:

◉ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. **BUILDING INFORMATION:**

BUILDING TYPE:

○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
○ HOUSE ◉ OTHER Steel Building with Apartment

HEATED SQUARE FOOTAGE: 3,200

NUMBER OF BEDROOMS: 2

NUMBER OF OCCUPANTS: 2

FOUNDATION TYPE:

◉ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
○ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ☑ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. **WATER SUPPLY:** ○ MUNICIPAL ◉ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. **PROPOSED USE OF WELL:** ○ N/A ○ IRRIGATION ◉ POTABLE (DRINKING WATER) ○ OTHER _____

8. **PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE** *(1-MOST DESIRED 5-LEAST DESIRED):*

☐ N/A ☐ ANY TYPE ☑ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. **RANK:** 1 3 2 4 5

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ◉ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ◉ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	◉ YES ○ NO	JURISDICTIONAL WETLANDS	○ YES ◉ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ◉ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ◉ NO
EASEMENTS OR RIGHT-OF-WAYS	◉ YES ○ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ◉ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ◉ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ◉ NO
WASTE STORAGE	○ YES ◉ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ◉ NO

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** _____ ☐ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** _____ ☑ N/A

12. **PROPERTY OWNER:**

NAME: Sarah Blackburn
ADDRESS: 16421 Shallow Pond Rd.
CITY: Charlotte
STATE: NC ZIP: 28278
WORK PHONE: (704) 338-1323
MOBILE PHONE: (704) 756-0752
FAX: _____
E-MAIL: sarah@interscapesinc.com

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

NAME: _____
ADDRESS: _____
CITY: _____
STATE: _____ ZIP: _____
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 980-314-1680, FAX: 704-336-6894
Email: Wellreg@MecklenburgCountyNC.gov

Revised on: 4/20/17

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

_____ (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

_____ (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Property Owner's or Owner's Legal Representative Signature

12-12-17
Date

OFFICE USE ONLY

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 980-314-1680, FAX: 704-336-6894
Email: Wellreg@MecklenburgCountyNC.gov

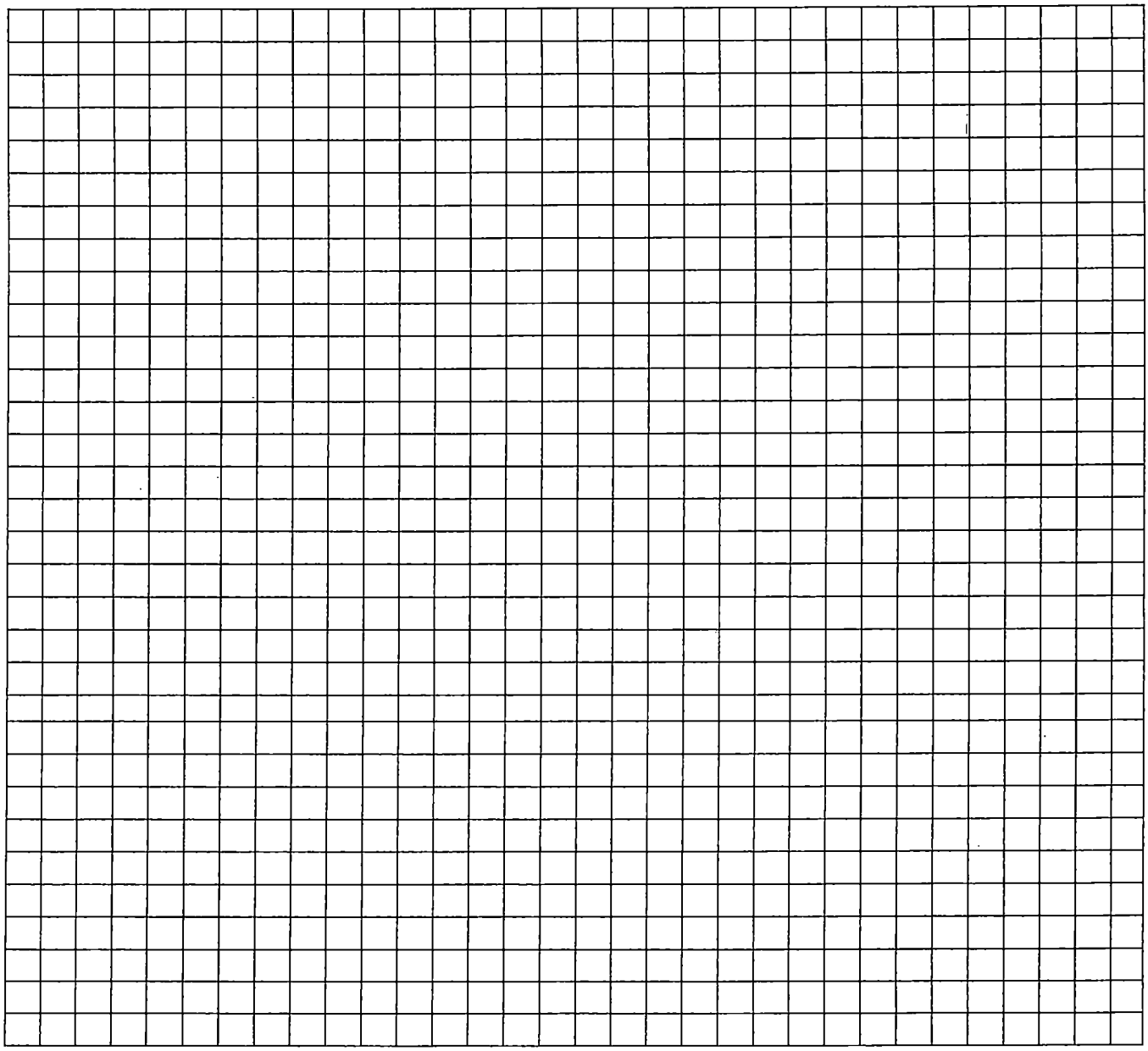
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 16421 Shallow Pond Rd. Tax Parcel #: 21724132

Subdivision Name: _____ Lot #: _____

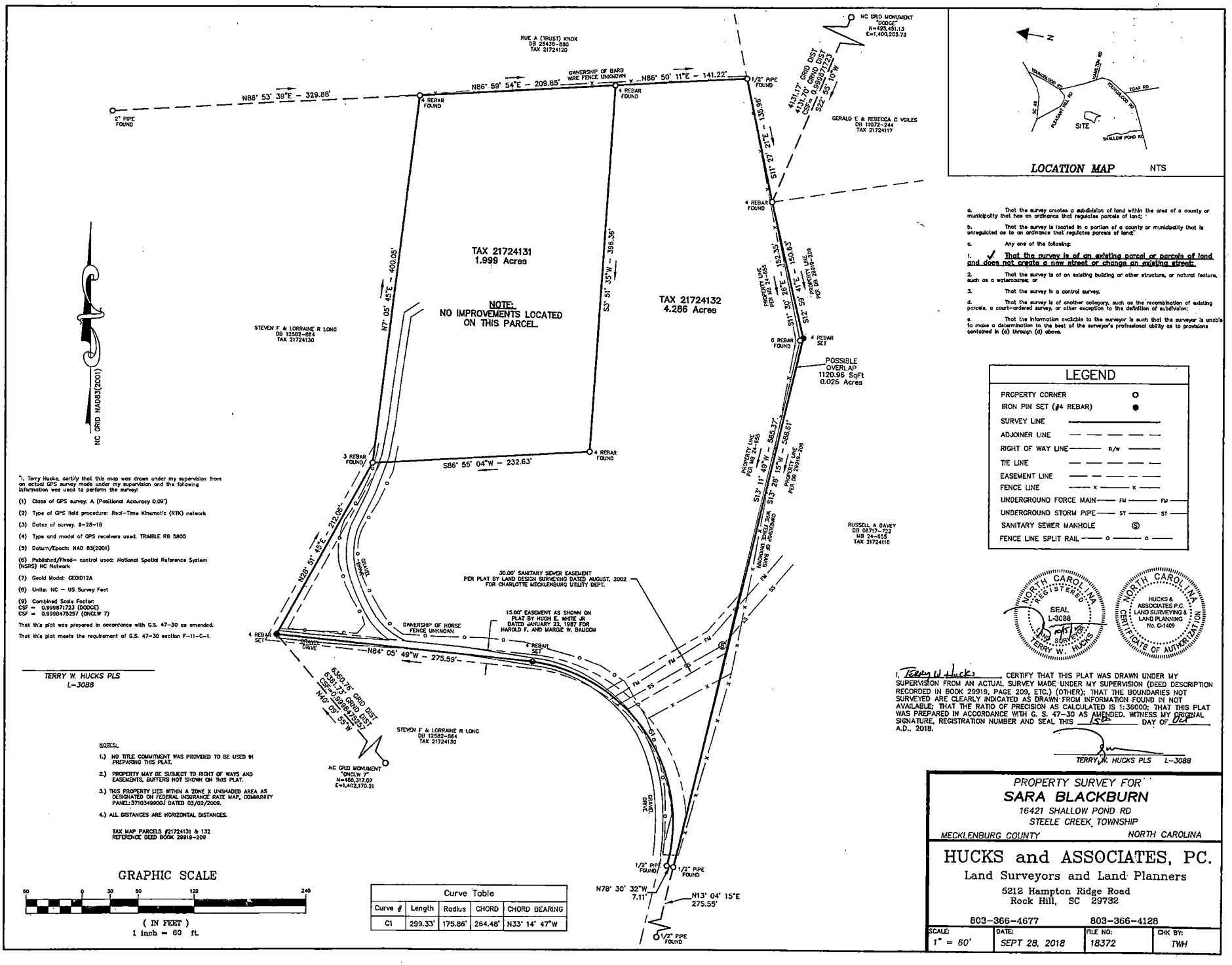


_____ _____

Property Owner's or Owner's Legal Representative Signature Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 980-314-1680, FAX: 704-336-6894
Email: Wellreg@MecklenburgCountyNC.gov

Revised on: 4/20/17



LOCATION MAP NTS

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;

b. That the survey is located in a portion of a county or municipality that is unregulated as to an ordinance that regulates parcels of land;

c. Any one of the following:

1. ✓ That the survey is of an existing parcel or parcels of land and does not create a new street or change an existing street;

2. That the survey is of an existing building or other structure, or natural feature, such as a watercourse; or

3. That the survey is a control survey.

d. That the survey is of another category, such as the recombination of existing parcels, a court-ordered survey, or other exception to the definition of subdivision;

e. That the information available to the surveyor is such that the surveyor is unable to make a determination to the best of the surveyor's professional ability as to provisions contained in (a) through (d) above.

LEGEND

PROPERTY CORNER	o
IRON PIN SET (#4 REBAR)	●
SURVEY LINE	
ADJOINER LINE	
RIGHT OF WAY LINE	R/W
TIE LINE	
EASEMENT LINE	
FENCE LINE	x x
UNDERGROUND FORCE MAIN	FM FM
UNDERGROUND STORM PIPE	ST ST
SANITARY SEWER MANHOLE	Ⓢ
FENCE LINE SPLIT RAIL	o o

"I, Terry Hucks, certify that this map was drawn under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

(1) Class of GPS survey: A (Positional Accuracy 0.09')

(2) Type of GPS field procedure: Real-Time Kinematic (RTK) network

(3) Dates of survey: 9-28-18

(4) Type and model of GPS receivers used: TRIMBLE R8 5800

(5) Datum/Epoch: NAD 83(2001)

(6) Published/Fixed-control used: National Spatial Reference System (NSRS) NC Network

(7) Geoid Model: GEOID12A

(8) Units: NC – US Survey Feet

(9) Combined Scale Factor:
CSF = 0.9998717723 (DODGE)
CSF = 0.9998475257 (ONCLW 7)

That this plat was prepared in accordance with G.S. 47-30 as amended.

That this plat meets the requirement of G.S. 47-30 section F-11-C-1.

TERRY W. HUCKS PLS
L-3088

NOTES:

1.) NO TITLE COMMITMENT WAS PROVIDED TO BE USED IN PREPARING THIS PLAT.

2.) PROPERTY MAY BE SUBJECT TO RIGHT OF WAYS AND EASEMENTS, BUFFERS NOT SHOWN ON THIS PLAT.

3.) THIS PROPERTY LIES WITHIN A ZONE X UNSHADED AREA AS DESIGNATED ON FEDERAL INSURANCE RATE MAP, COMMUNITY PANEL:3710349900J DATED 03/02/2009.

4.) ALL DISTANCES ARE HORIZONTAL DISTANCES.

TAX MAP PARCELS #21724131 & 132
REFERENCE DEED BOOK 29919-209

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

Curve Table				
Curve #	Length	Radius	CHORD	CHORD BEARING
C1	299.33'	175.86'	264.48'	N33° 14' 47"W

NORTH CAROLINA REGISTERED SEAL L-3088 LAND SURVEYOR TERRY W. HUCKS

HUCKS & ASSOCIATES P.C. LAND SURVEYING & LAND PLANNING No. C-1409 NORTH CAROLINA CERTIFICATE OF AUTHORIZATION

I, Terry W Hucks, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK 29919, PAGE 209, ETC.) (OTHER); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN NOT AVAILABLE; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:36000; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G. S. 47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 1st DAY OF Oct A.D., 2018.

TERRY W. HUCKS PLS L-3088

PROPERTY SURVEY FOR
SARA BLACKBURN
16421 SHALLOW POND RD
STEELE CREEK TOWNSHIP
MECKLENBURG COUNTY NORTH CAROLINA

HUCKS and ASSOCIATES, PC.
Land Surveyors and Land Planners
5212 Hampton Ridge Road
Rock Hill, SC 29732
803-366-4677 803-366-4128

SCALE:	DATE:	FILE NO:	CHK BY:
1" = 60'	SEPT 28, 2018	18372	TWH

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 12/27/17
Receipt #: 108501
Check / Auth #: JV
Received By: YORKZ

Amount: 250.00
Tendered: 250.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: INTERSCAPES INC
Attn: INTERIOR DESIGN
Address: 1323 THE PLAZA
Address:
City/State/Zip: CHARLOTTE, NC 28205

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 16421 SHALLOW POND RD		1	250.00	250.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

16194

INTERSCAPES INC.
INTERIOR DESIGN
1323 THE PLAZA (704) 338-1323
CHARLOTTE, NC 28205

WELLS FARGO BANK, N.A.
www.wellsfargo.com
66-21/530

PAY Two hundred fifty and 00/100 DATE 12-12-17 AMOUNT $250.00

TO THE ORDER OF Mecklenburg County

16421 Shallow Pond Rd

Sandra Blackburn MP
AUTHORIZED SIGNATURE

⑈000016194⑈ ⑆053000219⑆ 207048419866 3⑈

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 3
Property ID: 217-241-32
Lot #: NA
File #: 9898B
AppID: 9348

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: Sarah Blackburn
Address: 16421 Shallow Pond Rd, Charlotte, NC 28278
Proposed Facility: 2 Bedroom House
Design Flow (.1949): 240 GPD
Location: 16421 Shallow Pond Rd, Charlotte, NC 28278
Water Supply: [ ] Public [X] Individual [X] Well [ ] Spring [ ] Municipal
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: owner
Date Evaluated: 10/15/2018
Property Size: 4.33 ac
Property Recorded: Unknown

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY 1941 Structure/ Texture	SOIL MORPHOLOGY 1941 Consistence Mineralogy	b PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit #1	LS 12%	0 - 12	Fill		>70"	30	PS	NA		PS IV 0.3	Install at 36"
		12 - 30	sbk CL	SS P FR SEXP							
		30 - 70	mass L Sap	SS SP FR SEXP							
Pit #2	LS 12%	0 - 8	Fill		>68"	0	PS	NA		PS IV 0.3	Install at 36"
		8 - 22	mass L Sap	SS SP FR SEXP							
		22 - 68	mass SL Sap	SS SP VFR SEXP							
Pit #3	LS 12%	0 - 3	gr SL	SS SP FR SEXP	>65"	28	PS	NA		PS IV 0.3	Install at 36"
		3 - 12	sbk C	S P FR SEXP							
		12 - 28	sbk CL	SS SP FR SEXP							
		28 - 65	mass L Sap	SS SP FR SEXP							
Pit #4	LS 12%	0 - 4	gr L	SS SP FR SEXP	>61"	61	NA	NA	saprolite inclusions 41 - 61"	PS IV 0.3	36"
		4 - 41	sbk C	SS SP FR SEXP							
		41 - 61	sbk CL	S P FR SEXP							
Pit #5	LS 6%	0 - 8	gr SL	SS SP FR SEXP	>58"	58	NA	NA		US	NA
		8 - 58	mass C	VS VP VFI EXP							
Pit #6	LS 6%	0 - 3	gr SL	SS SP FR SEXP	2 chroma at 16"	36	NA	NA	gravelly	US	NA
		3 - 8	sbk SCL	SS SP FR SEXP							
		8 - 36	sbk C	S P FR SEXP							
Pit #7	LS 6%	0 - 3	gr SL	SS SP FR SEXP	2 chroma at 20"	36	NA	NA		US	NA
		3 - 17	abk C	SS SP FR SEXP							
		17 - 36	mass C	S VP VFI EXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIbg	IIIbg
Site LTAR (gpd/sq ft)	**0.3***	**0.3***

***Trench Depth should be 36".**

Other Factors (.1946): NA
Soil Evaluation By: Jacob Presley, REHS, LSS
Others Present: Sarah & William Blackburn
Site Classification (.1948): Provisionally Suitable
Site Evaluation By: Jacob Presley, REHS, LSS
Others Present:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	SOIL MORPHOLOGY .1941 .1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit #8	LS 6%	0 - 4	gr SL	SS SP FR SEXP	2 chroma at 24"	42	NA	NA		US	NA
		4 - 12	sbk SCL	SS SP FR SEXP							
		12 - 24	sbk C	S P FR SEXP							
		24 - 42	sbk SC	S P FI SEXP							

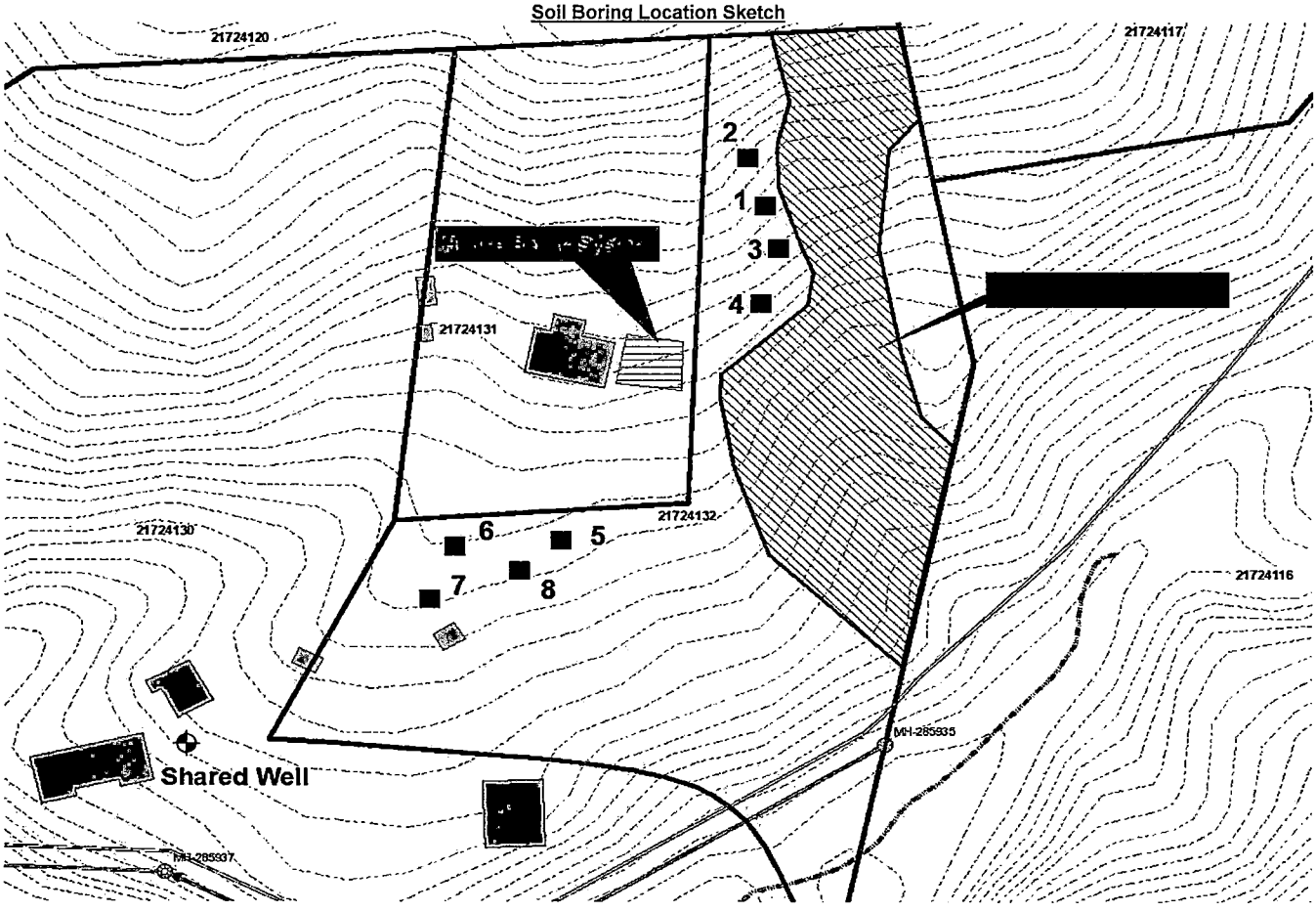
File #: 9898B
AppID: 9348

COMMENTS: Sewer line on south end of property is a "dry line" and cannot be tapped into at this time but will be available at some time in future according to Charlotte Water.

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
		SiCL-Silty Clay Loam		
CV-Convex Slope				pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak m-moderate s-strong f-fine m-medium
		Silt		c-coarse
	IV	SC-Sandy Clay	0.4 - 0.1	
		SiC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Soil Boring Location Sketch



Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30009348** GWS File #: **9898B** Tax Parcel #: **217-241-32**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 10/18/2023

Type of Installation: Residential - New System Lot Number: 0

Structure Type: OTHER Size (ft^2): 3200 # Bedrooms: 2 Max. Occup.: 4

Building Foundation: Concrete Slab Water Supply: Private Well

II. Initial System Type: Pump to Accepted **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd):	240	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	600	Total Trench Length (ft):	200
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: Pump to Accepted **System Classification:** IIIb

Repair System Specifications:

Design Flow (gpd):	240	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	600	Total Trench Length (ft):	200
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jacob Presley

Signature: _____

Date Issued: 10/18/2018

Owner/Legal Agent: Sarah Blackburn
Print Name

Signature: Sarah Blackburn

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30009348** GWS File #: **9898B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. from all private wells (saprolite system).
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 15 feet from any foundation drain.
- TRENCH DEPTH MUST BE 36". See the On-site Wastewater Improvement Permit Diagram for more details.

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

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Authorized Agent: Jacob Presley

Signature: _____

Date Issued: 10/18/2018

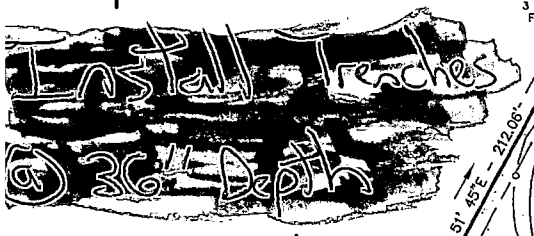
Owner/Legal Agent: Sarah Blackburn
Print Name

Signature: Sarah Blackburn

On-site Wastewater Improvement Permit Diagram

Drawn by Jacob Presley, REHS 10-18-18 JLP

16415 Shallow Pond Dr.
PID 217-241-32
2 Bedroom House
240 GPD 0.3 LTAR
Type 111bg
1,000 Gallon Septic Tank
1,000 Gallon Pump Tank
200 Total Linear Feet of
Accepted 25% Reduction



5 Lines 3' wide by
40' long fed by
Pressure Manifold
with 5 taps (1/2" SCH80)

First System Line is 165' from Property Corner

165'

Pressure Manifold

111bg Repair

5 Lines @ 40' each

40
40
40
40
40

TAX 21724131
1.999 Acres

NOTE:
NO IMPROVEMENTS LOCATED ON THIS PARCEL.

All lines start 10' off of property line.

111bg Repair

TAX 21724132
4.286 Acres

Approx 350' Supply Line

1,000 Gallon ST
1,000 Gallon PT

3BR

110'

80

Well Area

RUE A (TRUST) KNOX
DB 25438-880
TAX 21724120

OWNERSHIP OF BARB WIRE FENCE UNKNOWN

N86° 59' 54"E – 209.85'

N86° 50' 11"E – 141.22'

N86° 53' 39"E – 329.88'

4 REBAR FOUND

1/2" PIPE FOUND

4131.17' GRID DIST
4131.70' GRND DIST
CSF= 0.999871723
S22° 55' 10"W

S11° 27' 21"E – 135.96'

GERALD E & DB TA

4 REBAR FOUND

PROPERTY LINE PER MB 24-655

S11° 30' 26"E – 150.35'

PROPERTY LINE PER DB 29919-209

S12° 59' 41"E – 150.63'

6 REBAR FOUND

4 REBAR SET

POSSIBLE OVERLAP
1120.96 SqF
0.026 Acres

N7° 05' 45"E – 400.05'

S8° 54' 36"W

S13° 11' 49"W – 585.37'

S13° 28' 15"W – 588.61'

PROPERTY LINE PER MB 24-655

PROPERTY LINE PER DB 29919-209

STEVEN F & LORRAINE R LONG
DB 12582-864
TAX 21724130

3 REBAR FOUND

S86° 55' 04"W – 232.63'

4 REBAR FOUND

N28° 51' 45"E – 212.06'

GRAVEL DRIVE

30.00' SANITARY SEWER EASEMENT PER PLAT BY LAND DESIGN-SURVEYING DATED AUGUST, 2002 FOR CHARLOTTE MECKLENBURG UTILITY DEPT.

15.00' EASEMENT AS SHOWN ON PLAT BY HUGH E WHITE JR DATED JANUARY 22, 1987 FOR HAROLD F. AND MARGE W. BAUCOM

OWNERSHIP OF HORSE FENCE UNKNOWN

OWNERSHIP OF BARB WIRE FENCE UNKNOWN

4 REBAR SET

GRAVEL DRIVE

N84° 05' 49"W – 275.59'

FM

SS

6360.76' GRID DIST
6361.73' GRND DIST
CSF= 0.998847527
N0° 09' 55"W

NC GRID MONUMENT
"ONSLW 7"
N=486,317.07
E=1,402,170.21

STEVEN F & LORRAINE R LONG
DB 12582-864
TAX 21724130

GRAVEL DRIVE

N

1"=100'

1/2" PIPE FOUND

1/2" PIPE FOUND

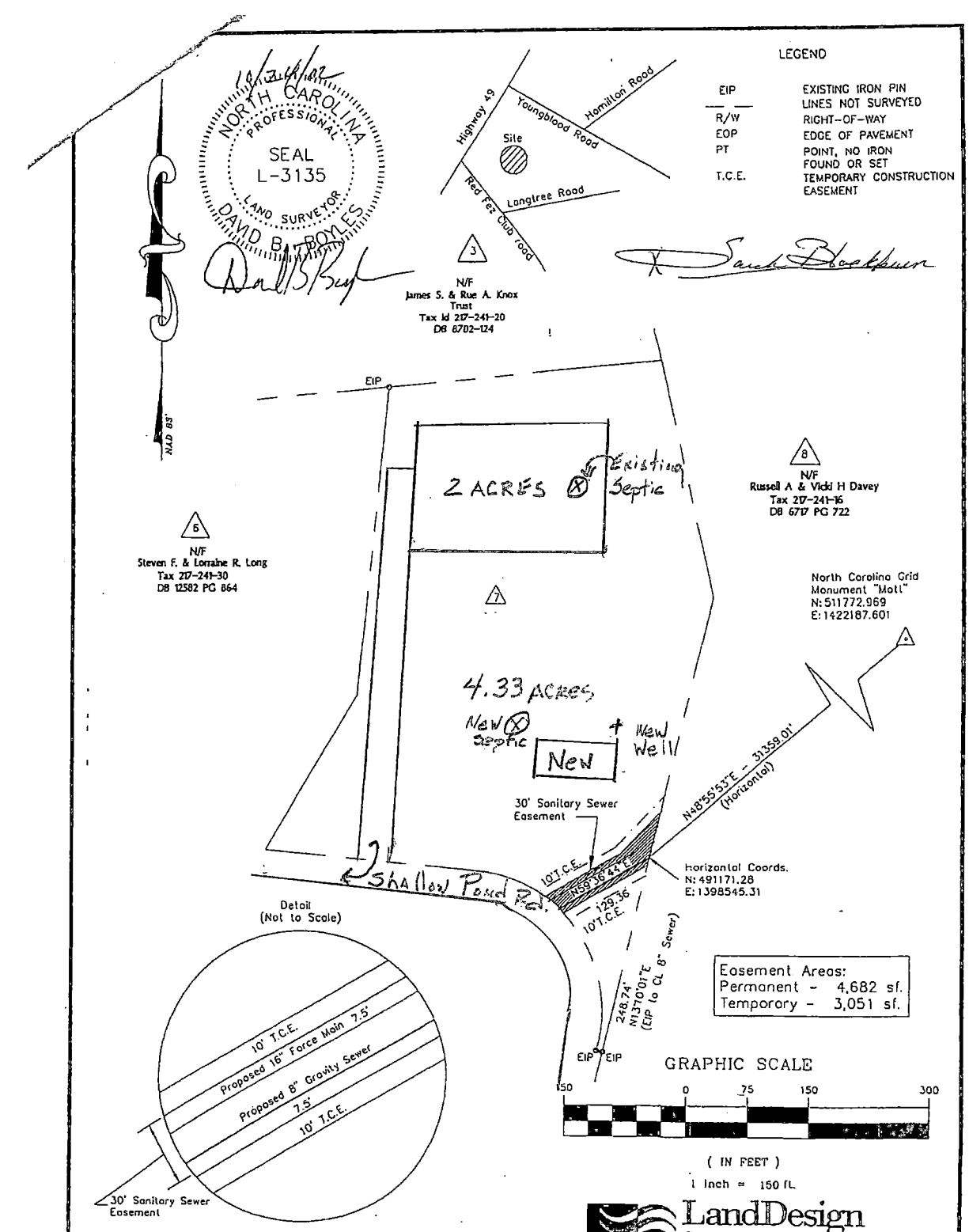
N78° 30' 32"W
7.11'

N13° 04' 15"E
275.55'

1/2" PIPE FOUND

240

Curve Table				
Curve #	Length	Radius	CHORD	CHORD BEARING
C1	299.33'	175.86'	264.48'	N33° 14' 47"W



NOTES:

1. THIS MAP WAS PREPARED FOR THE PURPOSE OF RIGHT-OF-WAY AND/OR EASMENT ACQUISITION ONLY, AND IS NOT INTENDED TO BE A BOUNDARY SURVEY OF THE PROPERTY SHOWN.
2. THIS PLAT DOES NOT COMPLY WITH G.S. 47-30.
3. THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL RESTRICTIONS, EASEMENTS, RIGHT OF WAYS, UTILITIES, COVENANTS, AND RESTRICTIONS THAT MAY BE OF RECORD.
4. THIS PLAT HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.

LandDesign Surveying
223 North Graham Street
Charlotte, NC 28202
Phone: (704) 376-7777
Fax: (704) 376-2448

CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT
ENGINEERING DIVISION
CHARLOTTE, NORTH CAROLINA

154-01-654 Job No	551- File No.	Studman Branch Outfall & Force Main Sanitary Sewer Easement	
Scales			
PLAN			
PROFILE Hor 1"=150' Vert.		Property of Jeffery P. & Kay E. Fandel	
As Built	Date		
LDSI Surveyed By	Designed By	Drawn By	Project Engr
Approved By	8/02 Date	Sheet 7	Of 11

No.	Date	By	Revision
1	Oct. '02	CM	Revised per new alignment

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 10/29/18
Receipt #: 113544
Check / Auth #: CHECK 1655
Received By: ABDUSAI

Amount: 200.00
Tendered: 200.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: INTERSCAPES INC. INTERIOR DESIG
Attn:
Address: 1323 THE PLAZA
Address:
City/State/Zip: CHARLOTTE, NC 28205

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 16415 SHALLOW POND RD		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 10/29/18
Receipt #: 113543
Check / Auth #: CHECK 1655
Received By: ABDUSAI

Amount: 200.00
Tendered: 200.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: INTERSCAPES INC INTERIOR DESIG
Attn:
Address: 1323 THE PLAZA
Address:
City/State/Zip: CHARLOTTE, NC 28205

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 16415 SHALLOW POND RD		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

FEE: 200.00
DATE: 11/7/2018

CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9898B

PERMIT NUMBER: 30009348

PARCEL NUMBER: 21724132

JOB LOCATION INFORMATION

ADDRESS: 16415 SHALLOW POND RD

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28278

ISSUED TO: SARAH BLACKBURN

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 10/30/2018

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30009348, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. A PRE-CONSTRUCTION MEETING MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A LICENSED SEPTIC TANK CONTRACTOR WITH THE NORTH CAROLINA ONSITE WASTEWATER CONTRACTOR INSPECTOR CERTIFICATION BOARD.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, AND MAY BE ISSUED AT THE SAME TIME THE IMPROVEMENT PERMIT IS ISSUED.

Authorized Agent Signature April Bumgarner

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File # 98986 App# 9348 Tax Parcel# 217-241-32

Property Owner: Sarah Blackburn

Job Location Address: 16415 Shallow Pond Rd

City: Charlotte State: NC Zip Code: 28278

1. Does System design match facility, flow & wastewater characteristics?

   ☑ YES ☐ NO

   Comments: _____

2. Is there sufficient available space for the septic systems initial and repair areas?

   ☑ YES ☐ NO

   Comments: _____

3. Can the septic system be installed per the permit conditions and drawing on file?

   ☑ YES ☐ NO

   Comments: _____

*If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☑ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. System shall not be installed while soils are in wet condition.

April Burnguer — Authorized Agent

9-14-21 — Date

Steve Autry — Others Present

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 9898B Permit #: 9348 Tax Parcel #: 217-241-32

Property Owner: Sarah Blackburn

Job Location Address: 16415 Shallow Pond Rd

City: Charlotte State: NC Zip Code: 28278

Operation Permit Issuance Date: _____ Contractor Name: Autry

Permitted Design Flow: 240 GPD Liquid Capacity of Dosing Tank: 1000 gallons

Liquid Capacity of Septic Tank: 1000 gallons Tank Manufacture Dellinger Effluent Pump Model: ME .5HP

Drainfield Installation ☐ N/A

Trench Depth: 36 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 200 feet

# of Lines: 5 @ 40 feet

Depth of Media: 12 inches (Type) CHM36

Depth of Cover: 24 inches

Distribution Device: P Manifold

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☐ Municipal ☒ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 10'+ feet

Distance from Property Line: 10'+ feet

Distance from Water Supply Source: 100' feet

Inspection Dates

Tank(s) Inspected: 9-14-21

Excavation Inspected: 9-14-21

Pump & Controls Inspected: 9-14-21

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

See attached drawing

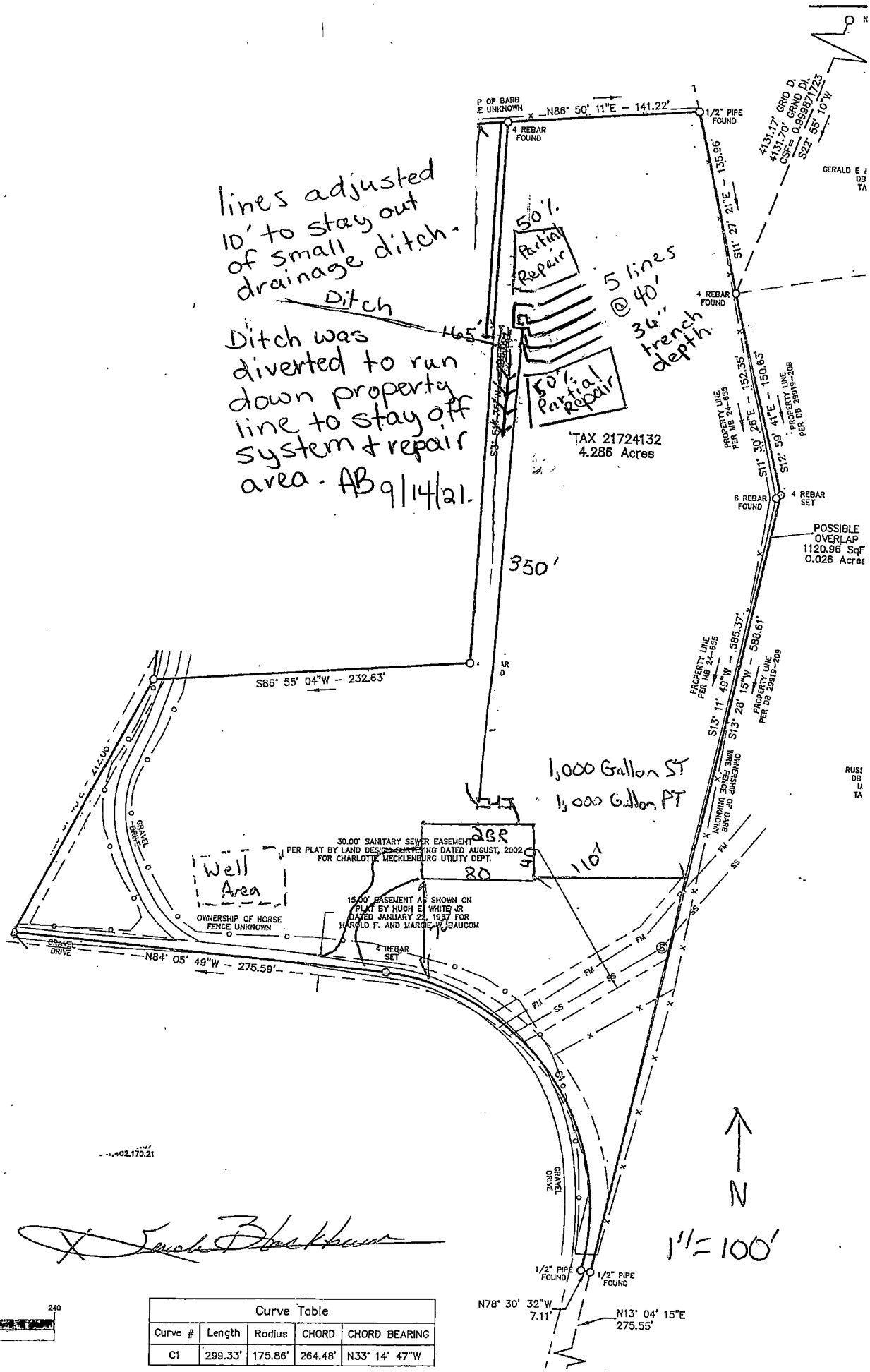
The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: III b/p/CHM36/NA/NA

DENR Authorized Agent: April Bumgarner Signature: April Bumgarner

Operation Permit
Installation



Curve Table				
Curve #	Length	Radius	CHORD	CHORD BEARING
C1	299.33'	175.86'	264.48'	N33° 14' 47"W

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 9898B Permit #: 9348 Tax Parcel #: 217-241-32

Property Owner: Sarah Blackburn

Job Location Address: 16415 Shallow Pond Rd

City: Charlotte State: NC Zip Code: 28278

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIb

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☒ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: April Bumgarner Date: 9-14-21

Signature: April Bumgarner