Groundwater & Wastewater Services: Septic Project File & D

GWS File #:	9754B
WASPS App #:	9011
Primary ES assigned to project:	Jeremy Michelone
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?	Yes
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:	9/22/2017

Created at 9/22/2017 8:26 AM by Michael, Jeremy
Last modified at 9/22/2017 8:26 AM by Michael, Jeremy

Close

Supervisor/Administrative Professional Checklist

New Septic ☒ New Well ☐ Use Existing ☐ Alteration ☐ Modified Plot Plan ☐

New Septic Fees Paid

IP ($250.00) LE 6/27/17 Initials/Date

CA ($200.00) AS 12/29/17 Initials/Date

OP ($200.00) AS 12/20/17 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 12/28/17

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. ☐ _____

FEE: 200.00

DATE: 2/5/2018

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

MECKLENBURG COUNTY

GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9754B

PERMIT NUMBER: 30009011

PARCEL NUMBER: 01515131

JOB LOCATION INFORMATION

ADDRESS: 11913 PLATON AVE

CITY: HUNTERSVILLE **STATE: NC** **ZIP:** 28078

ISSUED TO: ISIAH BOYD RENOCABLE

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 12/28/2017

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30009011, 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 _____

MECKLENBURG COUNTY
HEALTH DEPARTMENT

9754B
#9011 22 JUN '17 PM 3:54

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: 01515131
STREET ADDRESS: 11913 PLATON AV
CITY: HUNTERSVILLE
STATE: NC ZIP: 28078
SUBDIVISION NAME:
LOT #: 29 LOT SIZE (acres): 0.17
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
HEATED SQUARE FOOTAGE: 1,520
NUMBER OF BEDROOMS: 3
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: ____ ____ ____ ____ ____

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: ISIAH BOYD RENOCABLE
ADDRESS: 11913 PLATON AVE
CITY: HUNTERSVILLE
STATE: NC ZIP: 28078
WORK PHONE:
MOBILE PHONE: (704) 619-1903
FAX:
E-MAIL:

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: KIMBERLY SNEED/FREEDOM HOMES
ADDRESS: 1124 CHARLOTTE HWY
CITY: TROUTMAN
STATE: NC ZIP: 28680
WORK PHONE: (704) 528-7960
MOBILE PHONE: 704-881-2326
FAX:
E-MAIL: KIMSNEED.SNEED04@GMAIL.COM

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

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.

KS (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.

KS (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.

Kimberly Snead
Property Owner's or Owner's Legal Representative Signature

June 16, 17
Date

OFFICE USE ONLY

O SURVEY PLAT TO SCALE SUBMITTED O SCALED SITE PLAN SUBMITTED O 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: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

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.

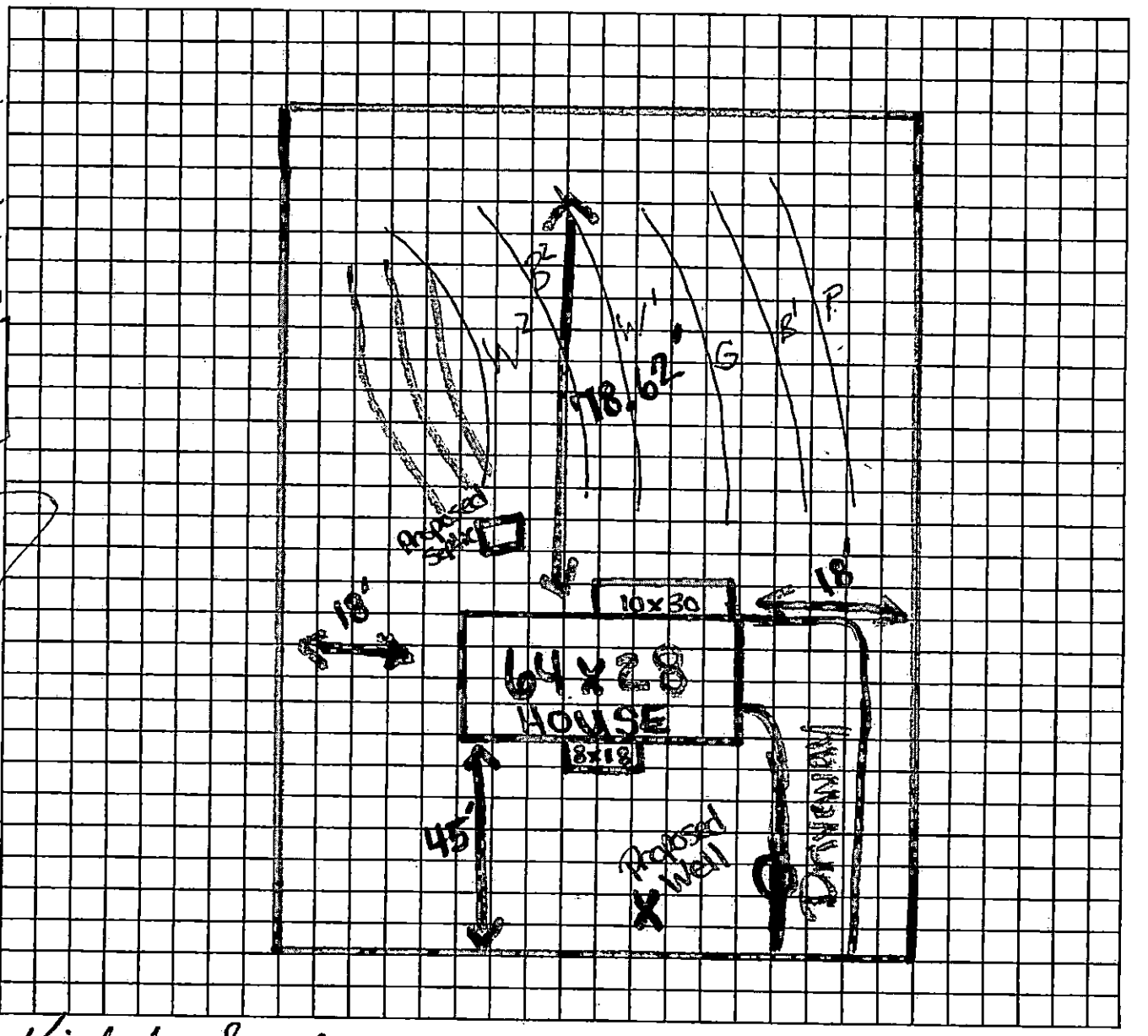
Street Address: 11913 Platon Ave Tax Parcel #: 01515131

Subdivision Name: _____ Lot #: 29

P=65ft
B¹=70ft
G=70ft
W¹=70ft
B²=75ft
W²=58ft

408

300?



Kimberly Sneed
Property Owner's or Owner's Legal Representative Signature

June 16, 17
Date

360 ÷ 0.3 = 1200 ÷ 3 = 400

MECKLENBURG COUNTY
Health Department

E. Winters Mabry, MD
Director

(704) 432-3199

Addendum to Application for
New Well or Septic System Installation
Abandonment or Repair of Existing Well or Septic System

Your signature below confirms the following:

1. The information on the application is true, complete and accurate.
2. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliances with applicable laws and rules.
3. I acknowledge that Kimberly Snead / Freedom Homes is acting as my legal representative (agent) in the submittal of the application for a water supply well or septic permit located at

015-151-31 015-151-32
Number Street Town
(Or Parcel Number)

ESTATE OF ISIAH BOYD; Vennie Patterson executor
Property Owner (print name)

Estate of Josiah Boyd; Vennie Patterson Executor.
Property Owner (signature)

6/20/17
Date

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	06/27/17	**Amount:**	250.00
Receipt #:	106409	**Tendered:**	250.00
Check / Auth #:	VISA 04131D	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #: 200000
Contractor: PUTNAM, JOHN T
Attn:
Address: 113 SUMMERTREE DR
Address:
City/State/Zip: TROUTMAN, NC 28166

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 11913 PLATON AV		1	250.00	250.00

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

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

Payment Receipt

Mecklenburg County POS

Environmental Health
700 N. Tryon Street
Charlotte, NC 28202
Phone: 704-336-5100

Enter Account # or Customer Name Here: JOHN T PUTNAM

Bill To:

JOHN T PUTNAM
113 SUMMERTREE DR

Troutman, NC 28166

Single Payment

Transaction Date: 06/27/2017 8:14 AM Pacific Time
Pay Method: VISA **********5369
Approval #: 04131D
Trace Number: d69ab2b1-1cdc-47e0-838d-cd89bf92d6dd
Amount: $250.00

Payment Amount: $250.00

Total: $250.00

Thank you for your payment.

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 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 #: 97548 Permit #: 9011 Tax Parcel #: 015-151-31

Property Owner: Isiah Boyd Ronocable

Job Location Address: 11913 Platon Ave

City: Huntersville State: NC Zip Code: 28078

Operation Permit Issuance Date: 5/7/18 Contractor Name: Tommy Frye

Permitted Design Flow: 360 GPD Liquid Capacity of Dosing Tank: 1000 gallons

Liquid Capacity of Septic Tank: 1000 gallons Manufacture Taylorsville PC Effluent Pump Model: Gauds 1/2

Drainfield Installation ☐ N/A

Trench Depth: 24 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 300 feet

# of Lines: 6 @ VARY feet 35,60,55,33,62,55'

Depth of Media: 12 inches (Type) IQ4W

Depth of Cover: 12 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: 8 feet

Distance from Property Line: 5 feet

Distance from Water Supply Source: 68 feet

Inspection Dates

Tank(s) Inspected: 5/3/18

Excavation Inspected: 5/7/18

Pump & Controls Inspected: 5/7/18

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

The system was installed and inspected by MCHS in exact accordance to the septic system design by Carolina Soil & Septic Consulting, PLLC

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: IIIb, Pressure, IQ4W, NA, NA

DENR Authorized Agent: Jeremy Mitchell REHS Signature: Jeremy Mitchell REHS

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

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

File #: 97548 Permit #: 9011 Tax Parcel #: 015-151-31

Property Owner: Isiah Boyd Honorable

Job Location Address: 11913 Platon Ave

City: Huntersville State: NC Zip Code: 28078

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: III-b

*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: Jeremy Nichols REHS Date: 5/7/18

Signature: Jeremy Nichols REHS

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

Septic System Pre-Construction Meeting Checklist

File # 97548 App # 9011 Tax Parcel # 015-151-31

Property Owner: Isiah Boyd Rnocable

Job Location Address: 11913 Platon Avenue

City: Huntersville State: NC Zip Code: 28078

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: Install exactly as designed by Consultant

* 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.**

Tommy Mark Ruth — Authorized Agent

4/19/18 — Date

Craig Thompson / Tommy Fryar — Others Present

Carolina Soil & Septic Consulting, PLLC

P.O. Box 1703, Mooresville, NC 28115

Phone: (704) 202-5791 Email: adrianpruett@yahoo.com

NC Licensed Soil Scientist, SC Professional Soil Classifier,
Certified Septic System Operator, Licensed Septic Installer,
Certified Septic Inspector

Proposed design for an Accepted 25% reduction Septic System with Pressure Manifold distribution for a 3 bedroom single family residence on Lots 29 and 30 of Norman Park Subdivision, Mecklenburg County, North Carolina.

Contents: **Page**

Information for the Installer---------- 1

Design Information
- Design Specifications---------- 2
- Layout Specifications---------- 3
- System Tapsheet---------- 4
- Pressure Manifold Diagram---------- 5

Site Plan/System Plan---------- 6

Calculations---------- 7

Profile Descriptions---------- 8-9

August 16, 2017
Job Number: 17104
Design By: Adrian L. Pruett

GWS Septic System Design Review

GWS File #: 97548 **Approved** **Disapproved**

Design Review: ☑ ☐

Field Review: ☑ ☐

***Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.**

1.	_____	☐	☐
2.	_____	☐	☐
	_____		

INFORMATION FOR INSTALLER:

- The permit should be read very carefully prior to submitting bid. The following are details that must be considered along with all other considerations.
- Tanks shall be approved by NC DHHS, and certification supplied by the manufacturer when requested.
- All tanks shall be properly back filled and compacted to prevent slumping at a later date.
- The installer is responsible for final grades and returning that grade to original, with exception of added structural features.
- The supply trench shall be compacted to eliminate any cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom has no more than 1/4"fall in 10 feet with no high or low areas within. If high or low areas do exist after trench excavation, high areas should be removed rather than filling in low areas. Do not over excavate trenches! Any fine grading should be completed by hand with a rake and shovel, leaving no loose material.
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral to prevent unwanted lateral water movement.
- Elevations at pin flag locations should be checked by the installer prior to beginning trenches to insure accuracy.
- Pump tank riser should be 6" above grade, control panel should be 12" above grade.
- If septic tank riser is used it should be a minimum of 6" above finished grade or within 6" below finished grade.
- Design precludes use of foundation drains on the residence and assumes back filling for positive drainage unless other wise noted.
- Trench walls should be raked, limed and installed at the depth specified by this design.
- Rake trench walls, lime sidewalls, install trenches 36" wide and have no more than 1/4" fall in 10 feet.
- **System is specified as an Accepted Pressure Manifold 25% reduction installation.**
- **Available repair is specified as an modified Low Pressure PPBPS installation.**
- **If grading for slab foundation is utilized do not grade/create greater than 2 ft of elevation difference within 15 ft of any component of the septic or repair. If back filling do not backfill over any initial or repair septic line.**

PRESSURE MANIFOLD SYSTEM
DESIGN SPECIFICATIONS

Owner:	Isiah Boyd
Address:	3400 Merrill Pl. Charlotte, NC 28216
Contact:	Billy Faine/Freedom Homes of Troutman
Phone:	704-528-7960
County:	Mecklenburg
Location:	NORMAN PARK BLOCK A LOTS 29 AND 30
Drainfield Design Flow (gpd):	360
Loading/Soil Application Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Total Lateral Length From Layout:	300
Total Lateral Length Required:	300
Trench Depth:	30 in. Low side
Trench Width:	36 in.
Trench Spacing:	9 ft. on center
Trench Bottom Area:	900
Repair Trench Spacing:	9 ft. on center
Repair Trench Depth:	30 in. Low side
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	155
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	26.97
Dosing Volume:	146.93
Pump Tank Draw Down:	7.0
Supply Manifold Size:	4 in. SCH 80 PVC
Supply Manifold Length:	4 ft. (minimum)
Supply Manifold Volume:	N/A
Recommended Dosing Controls:	Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	NEMA 4X Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	2.37
Elevation Head:	18.60
Total Dynamic Head:	29.13
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 at Pressure Manifold
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by CS&SC

**Pump tank draw down based on an industry standard volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

NORMAN PARK BLOCK A LOTS 29 AND 30
FIELD LAYOUT SPECIFICATIONS

LAYOUT FOR 3 BEDROOM HOME — August 16, 2017

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		1.3			100.00		
INSTR. 1			101.30				
HOUSE				15.60	85.70		
TANK				16.40	84.90		
1	*YELLOW*			*2.80*	*98.50*	*35*	*35*
2	*RED*			*4.60*	*96.70*	*61*	*60*
3	*ORANGE*			*6.60*	*94.70*	*55*	*55*
4	*BLUE*			*7.70*	*93.60*	*31*	*33*
5	*PINK*			*8.80*	*92.50*	*62*	*62*
6	*YELLOW*			*10.60*	*90.70*	*62*	*55*
7	RED			13.40	87.90	40	40
8	ORANGE			14.40	86.90	25	44
					Total	**371**	**384**

	LINE LENGTH	SYSTEM TYPE	SOIL LTAR GPD/FT[1]	TRENCH SYSTEM	DISTRIBUTION
** System*	*300*	*ACCEPT.*	*0.300*	*25% RED.*	**PRESSURE MANIFOLD**
Repair	84	MOD.	0.300	PPBPS	LOW PRESSURE

Notes:
** TBM located at top of eip at rear right corner (see site plan)
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS, HI, and FS indicate rod readings

Comments: *Norman Park Subdivision was recorded May 7, 1963 therefore Lot 29 and 30 are Repair Septic System exempt. When combining two lots that are rear exempt and the exterior lot lines do not change the lots still retain their repair exemption status. Septic system lines and tank may also be as close as 5 ft. to property lines.
*Minimal grading may be needed to smooth rough topography within system area
*Mecklenburg has CS&SC's permission to change distribution device and tank locations

CALCULATIONS

Location NORMAN PARK
Block: A
Lot No: 29 & 30

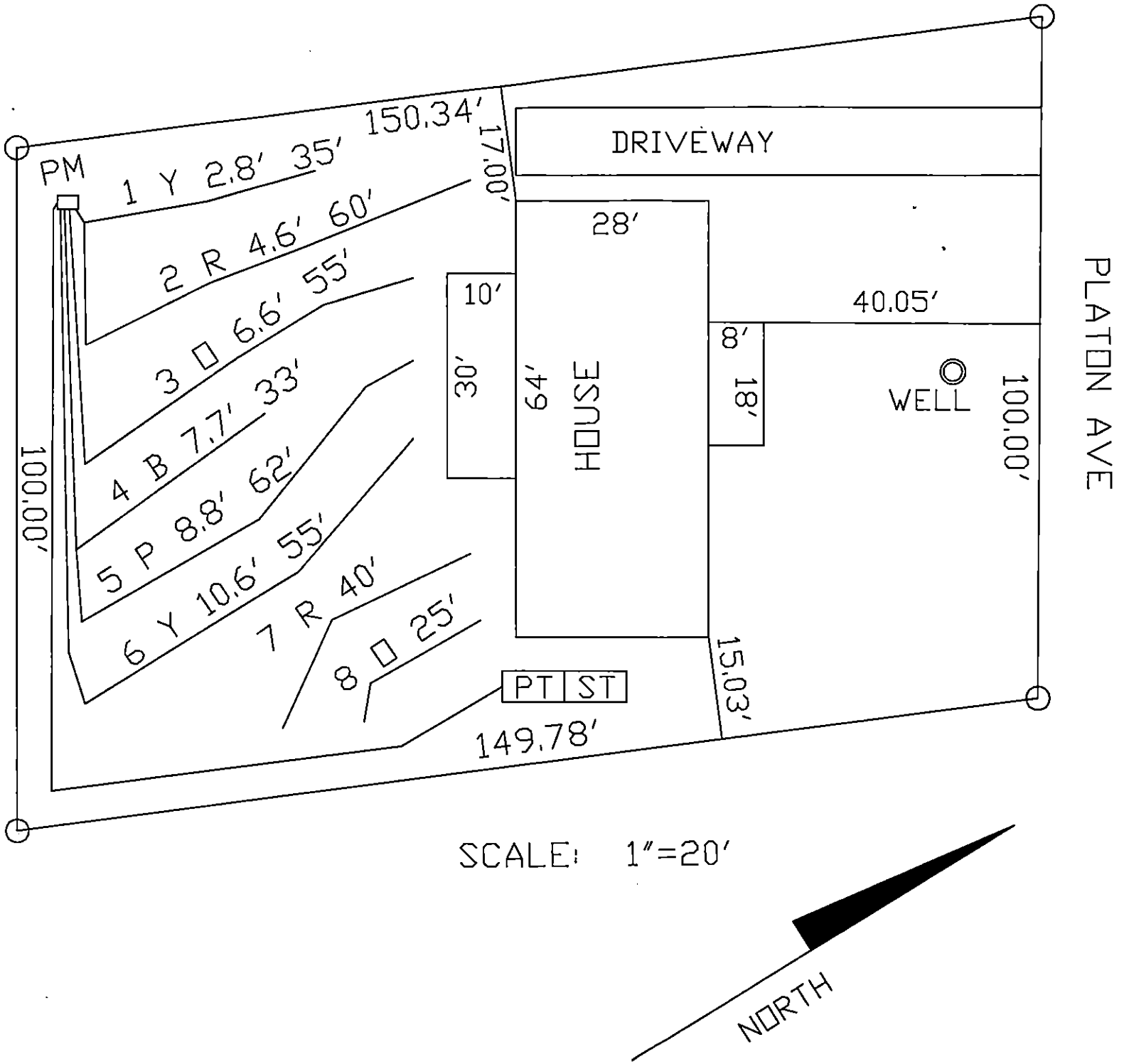
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.3	$^{gpd/ft^2}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	155	ft.
Supply Line Volume	26.97	gal.
Required Feet of Line	300	ft.
Amount of Line from Layout	300	ft.
Gallons per Minute	31.16	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	195.9	gal.
Dosing Volume	146.93	gal.

Note: Dosing Volume based on 75% of lateral line volume

Tank Draw Down	7.0	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	4.72	minutes
Elevation Head	18.6	ft.
Pressure Head	2	ft.
Friction Factor	2.37	ft./100 ft. *(From the interpolater.)*
Friction Head	3.67	ft.
Total Dynamic Head (+20%)	29.13	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42


PM
1 Y 2.8' 35'
2 R 4.6' 60'
3 □ 6.6' 55'
4 B 7.7' 33'
5 P 8.8' 62'
6 Y 10.6' 55'
7 R 40'
8 □ 25'
150.34'
17.00'
DRIVEWAY
28'
10'
30'
64'
HOUSE
40.05'
8'
18'
WELL
100.00'
PLATON AVE
100.00'
PT ST
149.78'
15.03'
SCALE: 1"=20'
NORTH

X Signature

PRESSURE MANIFOLD TAPSHEET
NORMAN PARK BLOCK A LOTS 29 AND 31
SYSTEM

Line #	Color	Elev	Length	Hole Size	Flow/Tap	gpd	Trench Area	Line LTAR
1&2	*Y&R*	*98.50*	*95*	SCH 80 3/4	10.1	47.62	285	~~0.17~~ 0.409
3	*ORANGE*	*94.70*	*55*	SCH 80 1/2	5.48	25.84	165	~~0.16~~ 0.384
4&5	*B&P*	*94.70*	*95*	SCH 80 3/4	10.1	47.62	285	~~0.17~~ 0.409
5	*YELLOW*	*92.50*	*55*	SCH 80 1/2	5.48	25.84	165	~~0.16~~ 0.384
	total	feet =	300	gal/min =	31.16			
			Des. Flow	360				
			Pump Run=	4.72				
			LTAR	25% RED.				

Some lines flagged longer in the field, shorten to lengths shown here.

FOR REGISTRATION
Fredrick Smith
REGISTER OF DEEDS
Mecklenburg County, NC
2017 SEP 15 10:32:06 AM
BK:32121 PG:515-517
FEE:$26.00
INSTRUMENT # 2017125152

TAYLORD



2017125152

Returned to customer

Drawn by: Alan G. Carpenter, Attorney at Law
1318-C Davie Avenue, Statesville, NC 28677

Parcel Nos. 01515131 and 01515132

Excise Tax: None

STATE OF NORTH CAROLINA

GENERAL WARRANTY DEED

COUNTY OF MECKLENBURG

THIS DEED made this 27th day of May, 2017, by and between

Isiah Boyd Revocable Living Trust,
a/k/a Vennie Inez Patterson, Successor Trustee of the Isiah Boyd Revocable Living Trust under Trust Agreement dated December 22, 2015,

hereinafter called the "**Grantor,**" whose mailing address is: 3400 Merrill Place, Charlotte, NC 28216

and

Isiah Boyd Revocable Living Trust,
a/k/a Vennie Inez Patterson, Successor Trustee of the Isiah Boyd Revocable Living Trust under Trust Agreement dated December 22, 2015,

hereinafter called the "**Grantee,**" whose mailing address is: 3400 Merrill Place, Charlotte, NC 28216

(The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors and assigns, and shall include singular, plural, masculine,

3

feminine or neuter as required by the context.)

WITNESSETH:

That the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in Mecklenburg County, North Carolina, and more particularly described as follows:

Being All of Lots Nos. 29 and 30 in Block A of Norman Park, with said subdivision being depicted in the plat recorded in Plat Book 10, page 321, Mecklenburg County Registry, and being more particularly described by metes and bounds as follows:

Beginning at a new iron rod in the southern margin of Platon Avenue, the northeastern corner of Lot No. 31 of Norman Park (Plat Book 10, page 321) and run thence with the southern margin of Platon Avenue, South 59-12-38 East 100.00 feet to a new iron rod, corner of Lot No. 28; thence with the line of Lot No. 28, South 22-31-16 West 149.78 feet to a new iron rod found in the line of the County of Mecklenburg; thence with the line of the County of Mecklenburg, North 59-32-01 West 100.00 feet to a new iron rod, corner of Lot No. 31; thence with the line of Lot No. 31, North 22-33-05 East 150.34 feet to a new iron rod in the southern margin of Platon Avenue, the point and place of Beginning, containing 0.341 acres, more or less, with this description taken from a survey by David S. Clark, Professional Land Surveyor, dated June 9, 2017.

Parcel #: 01515131 & 01515132

Property address: 11913 Platon Ave., Huntersville, NC 28078

It is the intention of Vennie Inez Patterson, Successor Trustee of the Isiah Boyd Revocable Living Trust under the Trust Agreement dated December 22, 2015, that the above described lots be combined into one tax parcel for Mecklenburg County mapping purposes.

The property does not include the primary residence of the Grantor. (NCGS § 105-317.2).

TO HAVE AND TO HOLD the aforesaid tract or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that the Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the

title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated.

Title to the property hereinabove described is subject to the following exceptions:

Easements, rights of way, covenants and restrictions of record, if any.

IN WITNESS WHEREOF, the Grantor has duly executed the foregoing, as of the day and year first above written.

Isiah Boyd Revocable Living Trust

by: _____ (SEAL)
Vennie Inez Patterson, Successor Trustee

_____ (SEAL)
Vennie Inez Patterson, Successor Trustee of the Isiah Boyd Revocable Living Trust under Trust Agreement dated December 22, 2015

STATE OF NORTH CAROLINA

COUNTY OF Mecklenburg

I, a Notary Public of the County and State aforesaid, certify that the following person(s) personally appeared before me this day, each acknowledging to me that he or she voluntarily signed the foregoing document for the purpose stated therein and in the capacity indicated:

Vennie Inez Patterson, Successor Trustee of the Isiah Boyd Revocable Living Trust under Trust Agreement dated December 22, 2015

Witness my hand and official stamp or seal, this 12th day of September, 2017.

_____
Notary Public

My Commission Expires: July 6, 2018
(Official Seal)

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

Sheet: 1 of 2
Property ID: 015-151-31 & 015-151-32
Lot #: NA
File #: 9754B
AppID: 9011

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Isiah Boyd Revocable Living Trust
Applicant: Kimberly Sneed/Freedom Homes
Address: 3400 Merrill Pl, Charlotte, NC 28216
Date Evaluated: 7/26/2017
Proposed Facility: 3 Bedroom House
Design Flow (.1949): 360 GPD
Property Size: 0.34 ac
Location of Site: 11913 Platon Ave, Huntersville, NC 28078
Property Recorded: Unknown
Water Supply: [ ] Public [X] Individual [X] Well [ ] Spring [ ] Municipal
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.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
Boring #1	LS 12%	0 - 3	gr CL	SS SP FR SEXP	>52"	52	NA	NA		PS IV 0.3	36"
		3 - 52	sbk C	S P FR SEXP							
Boring #2	LS 9%	0 - 3	gr CL	SS SP FR SEXP	>51"	51	NA	NA	saprolite inclusions 38 - 51"	PS IV 0.3	36"
		3 - 38	sbk C	S P FR SEXP							
		38 - 51	sbk CL	SS SP FR SEXP							
Boring #3	LS 12%	0 - 3	gr CL	SS SP FR SEXP	>52"	52	NA	NA	saprolite inclusions 26 - 52"	PS IV 0.3	36"
		3 - 40	sbk C	S P FR SEXP							
		40 - 52	sbk CL	SS SP FR SEXP							
Boring #4	FS 3%	0 - 3	gr CL	SS SP FR SEXP	2 chroma at 42"	44	NA	NA	saprolite inclusions 32 - 44"	PS IV 0.3	30"
		3 - 32	sbk C	S P FI SEXP							
		32 - 44	sbk CL	SS SP FR SEXP							

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

Other Factors (.1946): NA
Soil Evaluation By: Jacob Presley, LSS, REHS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

Sheet: 2 of 2
File #: 9754B
AppID: 9011

COMMENTS:

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
CV-Convex Slope		SiCL-Silty Clay Loam		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
		SiL-Silt Loam		s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		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

Sketch of Soil Evaluation Locations



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

Sheet: 1 of 2
Property ID: 015-151-31 & 015-151-32
Lot #: NA
File #: 9754B
AppID: 9011

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Isiah Boyd Revocable Living Trust
Applicant: Kimberly Sneed/Freedom Homes
Address: 3400 Merrill Pl, Charlotte, NC 28216
Date Evaluated: 7/26/2017
Proposed Facility: 3 Bedroom House
Design Flow (.1949): 360 GPD
Property Size: 0.34 ac
Location of Site: 11913 Platon Ave, Huntersville, NC 28078
Property Recorded: Unknown
Water Supply: [ ] Public [X] Individual [X] Well [ ] Spring [ ] Municipal
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	PROFILE FACTORS b .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
Boring #1	LS 12%	0 - 3	gr CL	SS SP FR SEXP	>52"	52	NA	NA		PS IV 0.3	36"
		3 - 52	sbk C	S P FR SEXP							
Boring #2	LS 9%	0 - 3	gr CL	SS SP FR SEXP	>51"	51	NA	NA	saprolite inclusions 38 - 51"	PS IV 0.3	36"
		3 - 38	sbk C	S P FR SEXP							
		38 - 51	sbk CL	SS SP FR SEXP							
Boring #3	LS 12%	0 - 3	gr CL	SS SP FR SEXP	>52"	52	NA	NA	saprolite inclusions 26 - 52"	PS IV 0.3	36"
		3 - 40	sbk C	S P FR SEXP							
		40 - 52	sbk CL	SS SP FR SEXP							
Boring #4	FS 3%	0 - 3	gr CL	SS SP FR SEXP	2 chroma at 42"	44	NA	NA	saprolite inclusions 32 - 44"	PS IV 0.3	30"
		3 - 32	sbk C	S P FI SEXP							
		32 - 44	sbk CL	SS SP FR SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	NA
System Type(s)	III b	IV a
Site LTAR (gpd/sq ft)	0.3	0.3

Other Factors (.1946): NA
Soil Evaluation By: Jacob Presley, LSS, REHS
Others Present:
Site Classification (.1948): Provisionally Suitable
Site Evaluation By: Jeremy Michelone, REHS
Others Present: Adrian Pruett

Jeremy Mich, REHS

COMMENTS: 100% Repair not required for this lot

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
CV-Convex Slope		SiCL-Silty Clay Loam		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
		SiL-Silt Loam		s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		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

Sketch of Soil Evaluation Locations



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 #: **30009011** GWS File #: **9754B** Tax Parcel #: **015-151-31**

- 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):** 9/21/2022

Type of Installation: Residential - New System Lot Number: 29

Structure Type: MODULAR HOME Size (ft^2): 1520 # Bedrooms: 3 Max. Occup.: 6

Building Foundation: Crawl Space Water Supply: Private Well

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

Initial System Specifications:

Design Flow (gpd):	360	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):	900	Total Trench Length (ft):	300
Maximum Trench Depth (in):	30	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: PPBPS (pressurized) **System Classification:** N/A

Repair System Specifications:

Design Flow (gpd):	360	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):	30	Depth of Media (in):	0	Distribution Device:	Manifold (LPP Distri		

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: Jeremy Michelone Owner/Legal Agent: _____
Print Name

Signature: _____ Signature: _____

Date Issued: 9/21/2017

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 #: **30009011** GWS File #: **9754B**

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.
- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- 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. (50 ft. minimum) from all private wells.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The permitted system design requires a pressure manifold with varying tap diameters and/or pipe schedules. The contractor should review the specification detail provided by the system designer prior to bidding the project.
- 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 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: Jeremy Michelone

Signature: Jeremy Mich. REHS

Date Issued: 9/21/2017

Owner/Legal Agent: _____
Print Name

Signature: _____

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1660 Fax: (704) 336-8894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30009011 GWS File #: 9754B Tax Parcel #: 015-151-31

- 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):** 9/21/2022

Type of Installation: Residential - New System Lot Number: 29

Structure Type: MODULAR HOME Size (ft^2): 1520 # Bedrooms: 3 Max. Occup.: 6

Building Foundation: Crawl Space Water Supply: Private Well

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

Initial System Specifications:

Design Flow (gpd):	360	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):	900	Total Trench Length (ft):	300
Maximum Trench Depth (in):	30	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: PPBPS (pressurized) **System Classification:** N/A

Repair System Specifications:

Design Flow (gpd):	360	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):	30	Depth of Media (in):	0	Distribution Device:	Manifold (LPP Distri		

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: Jeremy Michelone

Signature: Jeremy Mark Ross

Date Issued: 9/21/2017

Owner/Legal Agent: Kimberly Sneed

Print Name

Signature: Kimberly Sneed

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-8894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30009011 GWS File #: 9754B

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.
- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- 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. (50 ft. minimum) from all private wells.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The permitted system design requires a pressure manifold with varying tap diameters and/or pipe schedules. The contractor should review the specification detail provided by the system designer prior to bidding the project.
- 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 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.

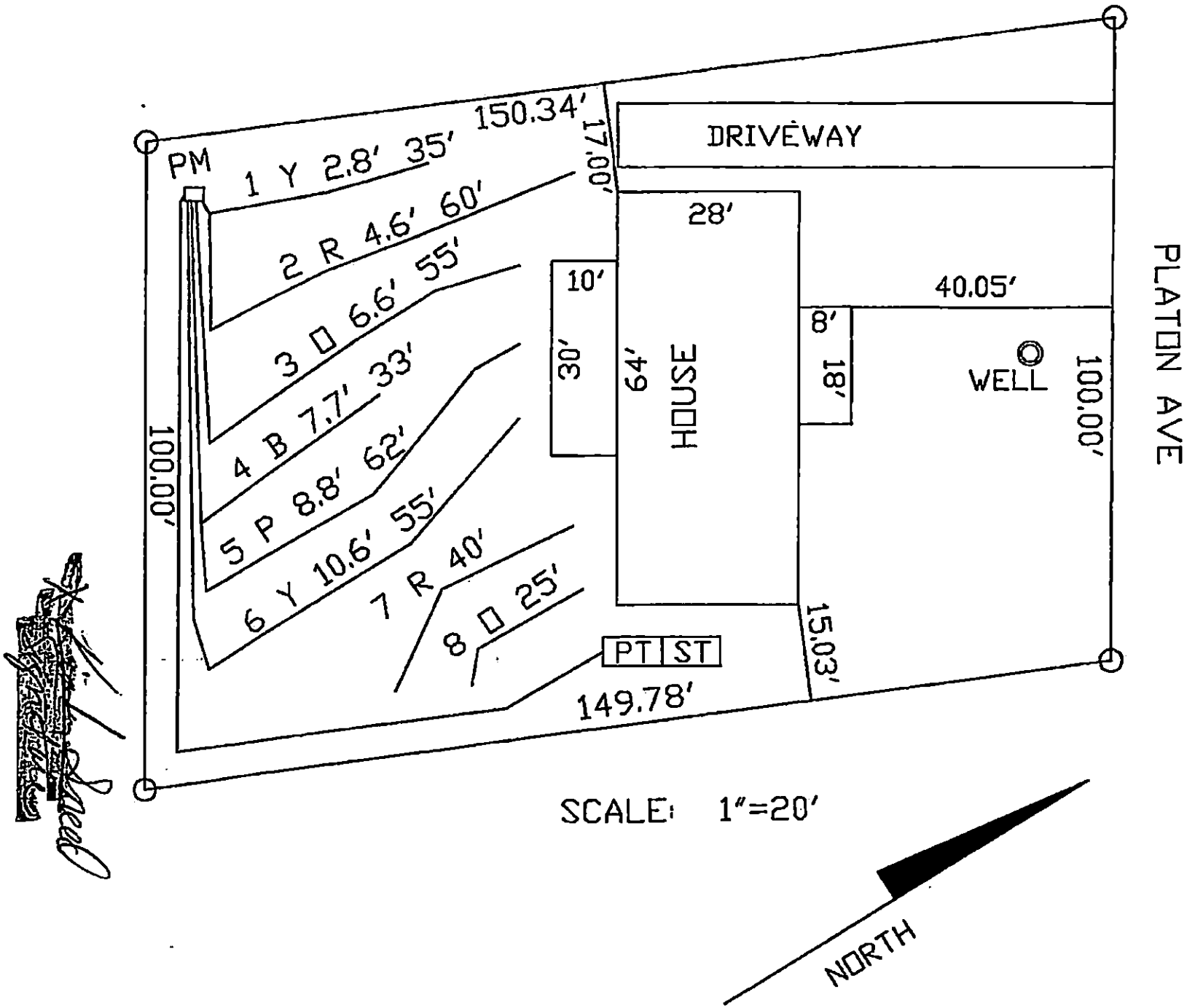
Authorized Agent: Jeremy Michelone

Signature: Jeremy Mich. REHS

Date Issued: 9/21/2017

Owner/Legal Agent: Kimberly Sneed
Print Name

Signature: Kimberly Sneed


PM
1 Y 2.8' 35'
2 R 4.6' 60'
3 □ 6.6' 55'
4 B 7.7' 33'
5 P 8.8' 62'
6 Y 10.6' 55'
7 R 40'
8 □ 25'
150.34'
17.00'
DRIVEWAY
28'
10'
30'
64'
HOUSE
40.05'
8'
18'
WELL
100.00'
PLATON AVE
100.00'
PT ST
15.03'
149.78'
SCALE: 1"=20'
NORTH

CAROLINA SOIL & SEPTIC CONSULTING, PLLC

P.O. BOX 1703, Mooresville, NC 28115
(704) 202-5791 adrianpruett@yahoo.com
NC Licensed Soil Scientist, SC Professional Soil Classifier,
Certified Septic System Operator, Licensed Septic Installer,
Certified Septic Inspector

May 15, 2018
Project Name: 17119

Jeremy Michelone

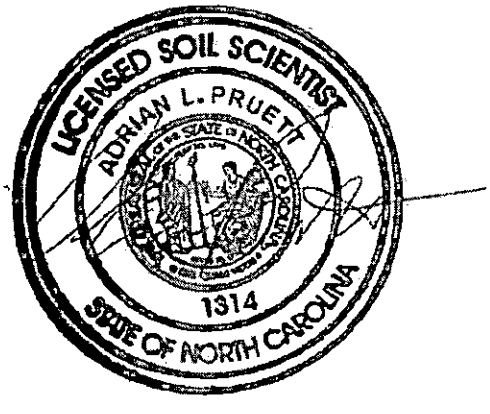
Septic Installation Approval for Norman Park Lots 29 and 30, 11913 Platon Ave., Huntersville, NC 28078

Dear Mr. Mikelone:

The septic system designed by Carolina Soil & Septic Consulting, PLLC and permitted by Mecklenburg County Environmental Health was installed at 11913 Platon Ave., Huntersville. Mecklenburg County Environmental Health inspected the system installation to insure it met and followed all design requirements and was satisfied the system was installed per CS&SC's septic system design. CS&SC did not inspect the system but is relying on Mecklenburg's vast knowledge and years of experience of septic system installation inspections to approve the final installation.

Sincerely,

Adrian L. Pruett



MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 12/20/17
Receipt #: 108478
Check / Auth #: VISA 04748D
Received By: ABDUSAI

Amount: 200.00
Tendered: 200.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: PUTNAM, JOHN
Attn:
Address: 113 SUMMERTREE DR
Address:
City/State/Zip: TROUTMAN, NC 28166

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 11913 PLATON AVE		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
435.00					

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	12/18/17	**Amount:**	200.00
Receipt #:	108433	**Tendered:**	200.00
Check / Auth #:	CHARGE	**Returned:**	0.00
Received By:	ABDUSAI		

Account Information

Account #:	X41765
Contractor:	CLAYTON HOMES #81
Attn:	
Address:	1230 CONOVER BLVD
Address:	
City/State/Zip:	CONOVER, NC 28613

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 11913 PLATON AVE		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
200.00		8.29	8.21	820.90	

Payment Receipt

Mecklenburg County POS

Environmental Health
700 N. Tryon Street
Charlotte, NC 28202
Phone: 704-336-5100

Enter Account # or Customer Name Here: JOHN PUTNAM

Bill To:

JOHN PUTNAM
113 SUMMERTREE DR

Troutman, NC 28166

Single Payment

Transaction Date: 12/20/2017 10:33 AM Pacific Time
Pay Method: VISA **********3825
Approval #: 04748D
Trace Number: 49b5b944-c379-476e-b1d2-ca61331705c6
Amount: $200.00

Payment Amount: $200.00

Total: $200.00

Thank you for your payment.