Supervisor/Administrative Professional Checklist

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

New Septic Fees Paid:

IP ($250.00) LE 7/8/15 Initials/Date

CA ($200.00) LE 8/26/15 Initials/Date

OP ($200.00) LE 8/26/15 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 8/29/15

OK To issue CA & do approved as noted.

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 & Data Review Worksheet

GWS File #: 9242B WASPS App #: 7619

Primary ES assigned to project: Jeremy Michael

Secondary ES assigned to project:

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☑	No ☐	N/A ☐
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☑	No ☐	N/A ☐
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 4			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR 0.3	Yes ☑	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☐	No ☐	N/A ☑
130A-336(a)(1)	Property line lengths shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☑	No ☐	N/A ☐
	Operation Permit			
.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: JHM _____ Date performed: _____

S

FEE: 200.00
DATE:9/1/2015

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9242B

PERMIT NUMBER: 30007619

PARCEL NUMBER: 19722118

JOB LOCATION INFORMATION

ADDRESS: 8135 ROLLING FIELDS RD

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28227

ISSUED TO: LJW LAND LLC

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 9/1/2015

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30007619, 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, NOT TO EXCEED 60 MONTHS.

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	08/26/15	**Amount:**	200.00
Receipt #:	95870	**Tendered:**	200.00
Check / Auth #:	CHECK 6687	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #: 200000
Contractor: TRUE HOMES
Attn:
Address: 2649 BREKONRIDGE CENTRE DR, SUITE 104
Address:
City/State/Zip: MONROE, NC 28110

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 8135 ROLLING FIELDS 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:	08/26/15	**Amount:**	200.00
Receipt #:	95872	**Tendered:**	200.00
Check / Auth #:	CHECK 6687	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #: 200000
Contractor: TRUE HOMES
Attn: 2649 BREKONRIDGE CENTRE DR, S
Address:
Address:
City/State/Zip: MONROE, NC 28110

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 8135 ROLLING FIELDS RD		1	200.00	200.00

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

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

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-8894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30007619 GWS File #: 9242B Tax Parcel #: 197-221-18

- 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):** 7/20/2020

Type of Installation: Residential - New System Lot Number: 3

Structure Type: HOUSE Size (ft^2): 3222 # Bedrooms: 4 # Occupants: 4

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: PPBPS (gravity) **System Classification:** IIIe

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	800	Total Trench Length (ft):	267
Maximum Trench Depth (in):	34	Depth of Media (in):	N/A	Distribution Device:	Distribution Box		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	480	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):	800	Total Trench Length (ft):	267
Maximum Trench Depth (in):	34	Depth of Media (in):	N/A	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 Michael Owner/Legal Agent: Keith Watts
Print Name

Signature: Jeremy Michael Signature: Keith Watts

Date Issued: 7/20/2015

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30007619 GWS File #: 9242B

IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- 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 waterlines must be located a minimum of 10 ft. from any part of the septic system.
- 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.
- 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.

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- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

Date Issued: 7/20/2015

Owner/Legal Agent: William Watt
Print Name

Signature: William Watt

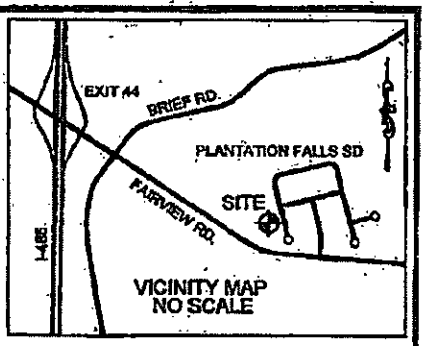
CERTIFICATION

I, MATTHEW J. STIKELEATHER, CERTIFY THAT THIS PLAN WAS COMPLETED UNDER MY SUPERVISION FROM AN RECORDED SURVEY (DESCRIPTION FROM M.B. 48-561); THAT THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY AND IS NOT TO BE USED FOR RECORDATION OR DEED PREPARATION; AND THAT THE THE PURPOSE OF THIS PLAN IS FOR PLANNING AND PERMITTING.

PRELIMINARY

MATTHEW J. STIKELEATHER, NC PLS L-4243

NORTH CAROLINA PROFESSIONAL SEAL L-4243 LAND SURVEYOR MATTHEW J. STIKELEATHER 6-24-15



60' 0' 30' 60'

1" = 60"

ROLLING FIELDS RD.

S12°44'16"E 130.00'

PLANTATION FALLS
LOT 3

E-Box

Flow Dividers (5)

Septic Tank

Interceptor Drain

4-Bedroom

PORCH

POOL

N77°15'44"E 368.36'

S77°15'44"W 348.05'

131.58'

N21°36'57"W

FLOOD LINE PER MB 48-561

*This is a septic layout only and is not intended to serve as a legal survey.

LEGEND
CB - CATCH BASIN
TEL BOX - TELEPHONE PEDESTAL
TRANS - POWER TRANSFORMER
S/B - SETBACK
PSDE - PUBLIC STORM DRAINAGE EASMENT
MH - MANHOLE
EBMT - EASEMENT
R/W - RIGHT OF WAY
O PROPERTY CORNER - AS DESCRIBED
SUBJECT PROPERTY LINE
ADJACENT OWNER LINE (UNSURVEYED UNLESS DIMENSIONED)
RIGHT-OF-WAY

NOTES

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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Permit #: 30007619 GWS File #: 9242B Tax Parcel #: 197-221-18

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Maximum Trench Depth (in):	34	Depth of Media (in):	N/A	Distribution Device:	Distribution Box		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
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- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michael Owner/Legal Agent: Jackie Dracup
Print Name

Signature: Jeremy Michael Signature: Jackie Dracup

Date Issued: 7/20/2015

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30007619 GWS File #: 9242B

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- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

Date Issued: 7/20/2015

Owner/Legal Agent: Jackie Draco

Print Name

Signature:

Page 2 of 2

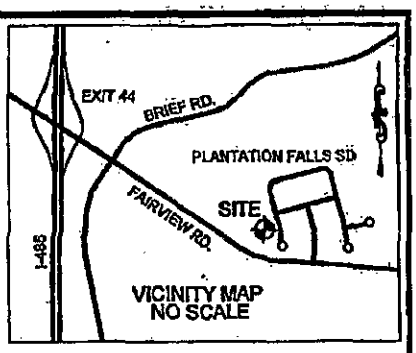
CERTIFICATION

I, MATTHEW J. STIKELEATHER, CERTIFY THAT THIS PLAN WAS COMPLETED UNDER MY SUPERVISION FROM AN RECORDED SURVEY (DESCRIPTION FROM M.B. 46-561); THAT THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY AND IS NOT TO BE USED FOR RECORDATION OR DEED PREPARATION; AND THAT THE THE PURPOSE OF THIS PLAN IS FOR PLANNING AND PERMITTING.

PRELIMINARY

MATTHEW J. STIKELEATHER, NC PLS L-4243

NORTH CAROLINA PROFESSIONAL SEAL L-4243 LAND SURVEYOR MATTHEW J. STIKELEATHER 6-24-15



60' 0' 30' 60'

1" = 60'

ROLLING FIELDS RD.

S12°44'16"E

130.00'

D-Box

Flow Dividers (5)

PLANTATION FALLS
LOT 3

Interceptor Drain

Septic Tank

15' WIDE CONC. DRIVE

PORCH

4-Bedroom

PORCH

POOL

N77°15'14"E 398.36'

S77°15'14"W 348.05'

*This is a septic layout only and is not intended to serve as a legal survey.

FLOOD LINE PER MB 46-561

20' SB

40' SB

131.58'

N21°36'57"W

LEGEND

CB - CATCH BASIN
TEL BOX - TELEPHONE PEDESTAL
TRANS - POWER TRANSFORMER
S/B - SETBACK
PSDE - PUBLIC STORM DRAINAGE EASMENT
MH - MANHOLE
ESMT - EASEMENT
R/W - RIGHT OF WAY
O PROPERTY CORNER - AS DESCRIBED
SUBJECT PROPERTY LINE
ADJACENT OWNER LINE (UNSURVEYED UNLESS DIMENSIONED)
RIGHT-OF-WAY

NOTES

9247B

Application # 7619

8 JUL '15 AM11:40

MECKLENBURG COUNTY
HEALTH DEPARTMENT

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: 19722118

STREET ADDRESS: 8135 Rolling Fields Rd

CITY: Charlotte

STATE: NC ZIP: 28227

SUBDIVISION NAME: Plantation Falls Estates

LOT #: 3 LOT SIZE (acres): 1.10

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: 3,222

NUMBER OF BEDROOMS: 4

NUMBER OF OCCUPANTS: 4

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? 6/3/09 ☐ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 7/30/15 ☐ N/A

12. PROPERTY OWNER:

NAME: LJW LAND LLC

ADDRESS: 7620 Baltusrol LN

CITY: Charlotte

STATE: NC ZIP: 28210

WORK PHONE: _____

MOBILE PHONE: (704) 451-1020

FAX: (704) 553-9005

E-MAIL: wwwaters@aol.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: 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.

_____ (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

July 7 2015 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: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

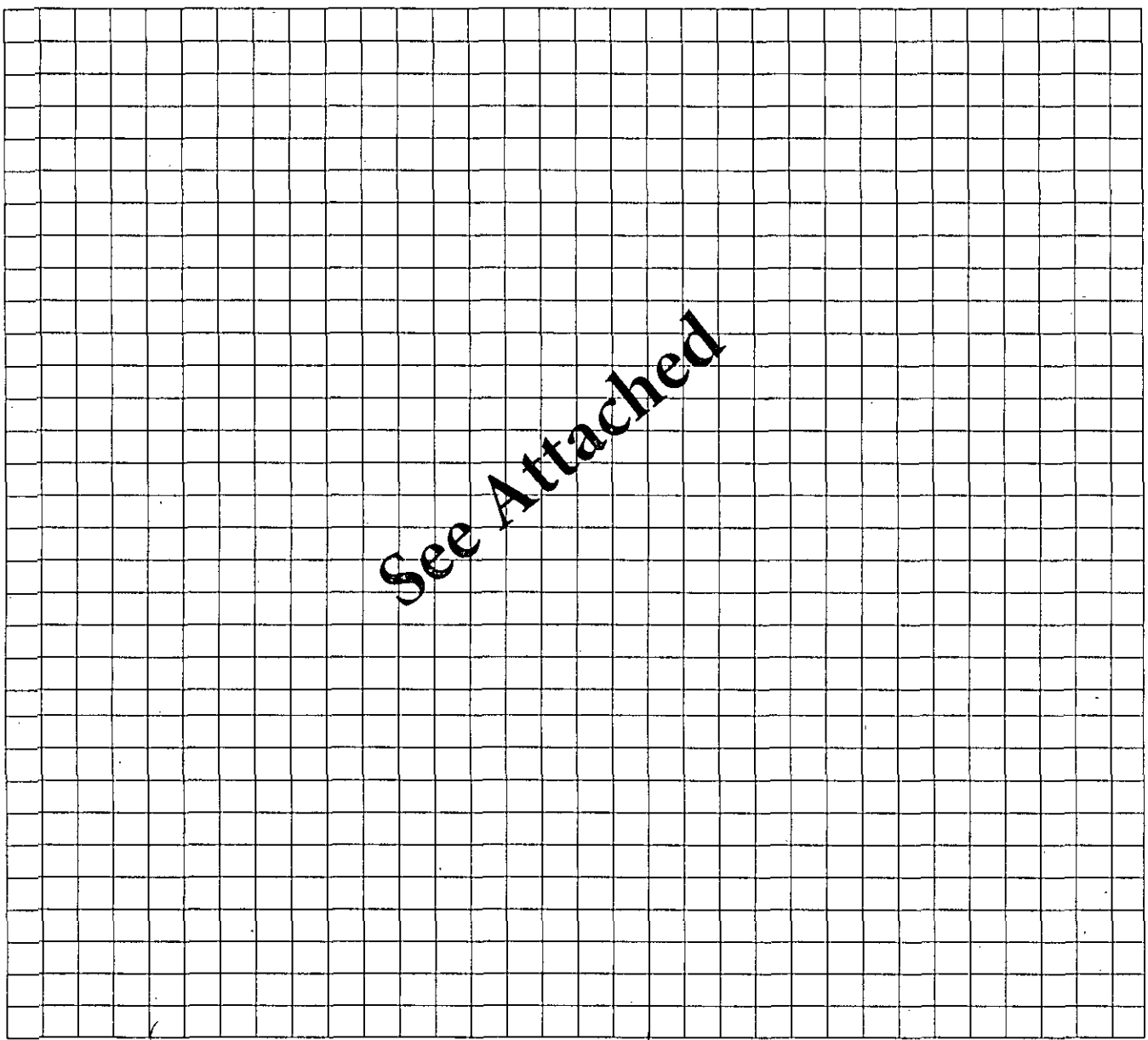
File #: _____

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: 8135 Rolling Fields Rd Tax Parcel #: 19722118

Subdivision Name: Plantation Falls Estates Lot #: 3



Property Owner's or Owner's Legal Representative Signature

7 2015
Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 214 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30007619** GWS File #: **9242B** Tax Parcel #: **197-221-18**

- 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):** 7/20/2020

Type of Installation: Residential - New System Lot Number: 3

Structure Type: HOUSE Size (ft^2): 3222 # Bedrooms: 4 # Occupants: 4

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: PPBPS (gravity) **System Classification:** IIIe

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	800	Total Trench Length (ft):	267
Maximum Trench Depth (in):	34	Depth of Media (in):	N/A	Distribution Device:	Distribution Box		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	480	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):	800	Total Trench Length (ft):	267
Maximum Trench Depth (in):	34	Depth of Media (in):	N/A	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 Michael Owner/Legal Agent: _____
Print Name

Signature: Jeremy Michael Signature: _____

Date Issued: 7/20/2015

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30007619** GWS File #: **9242B**

IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- 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 waterlines must be located a minimum of 10 ft. from any part of the septic system.
- 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.
- 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:

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- 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 Michael

Signature: Jeremy Michael

Date Issued: 7/20/2015

Owner/Legal Agent: _____
Print Name

Signature: _____

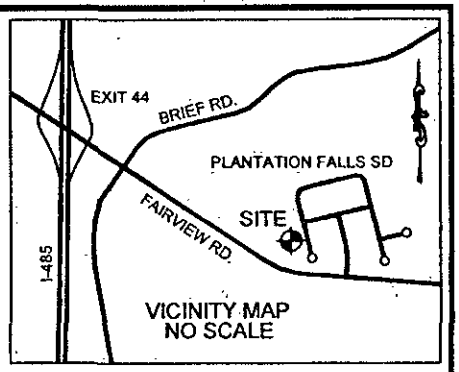
CERTIFICATION

I, MATTHEW J. STIKELEATHER, CERTIFY THAT THIS PLAN WAS COMPLETED UNDER MY SUPERVISION FROM AN RECORDED SURVEY (DESCRIPTION FROM M.B. 46-561); THAT THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY AND IS NOT TO BE USED FOR RECORDATION OR DEED PREPARATION; AND THAT THE THE PURPOSE OF THIS PLAN IS FOR PLANNING AND PERMITTING.

PRELIMINARY

MATTHEW J. STIKELEATHER, NC PLS L-4243

NORTH CAROLINA PROFESSIONAL SEAL L-4243 LAND SURVEYOR MATTHEW J. STIKELEATHER 6-24-15



60' 0' 30' 60'

1" = 60"

ROLLING FIELDS RD.

PLANTATION FALLS
LOT 3

S12°44'16"E
130.00'
D-Box
Flow Dividers (5)
Septic Tank
Interceptor Drain
16' WIDE CONC. DRIVE
PORCH
4-Bedroom
POOL
N77°15'44"E
368.36'
S77°15'44"W
348.05'
131.58'
N21°36'57"W
FLOOD LINE PER MB 46-561
20' SB
40' SB
710

*This is a septic layout only and is not intended to serve as a legal survey.

LEGEND
CB - CATCH BASIN
TEL BOX - TELEPHONE PEDESTAL
TRANS - POWER TRANSFORMER
S/B - SETBACK
PSDE - PUBLIC STORM DRAINAGE EASMENT
MH - MANHOLE
ESMT - EASEMENT
R/W - RIGHT OF WAY
O PROPERTY CORNER - AS DESCRIBED
SUBJECT PROPERTY LINE
ADJACENT OWNER LINE (UNSURVEYED UNLESS DIMENSIONED)
RIGHT-OF-WAY

NOTES

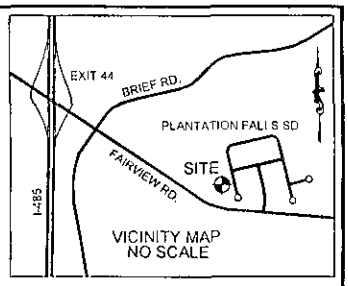
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I, MATTHEW J. STIKELEATHER, CERTIFY THAT THIS PLAN WAS COMPLETED UNDER MY SUPERVISION FROM AN RECORDED SURVEY (DESCRIPTION FROM M.B. 46-561); THAT THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY AND IS NOT TO BE USED FOR RECORDATION OR DEED PREPARATION; AND THAT THE THE PURPOSE OF THIS PLAN IS FOR PLANNING AND PERMITTING

PRELIMINARY

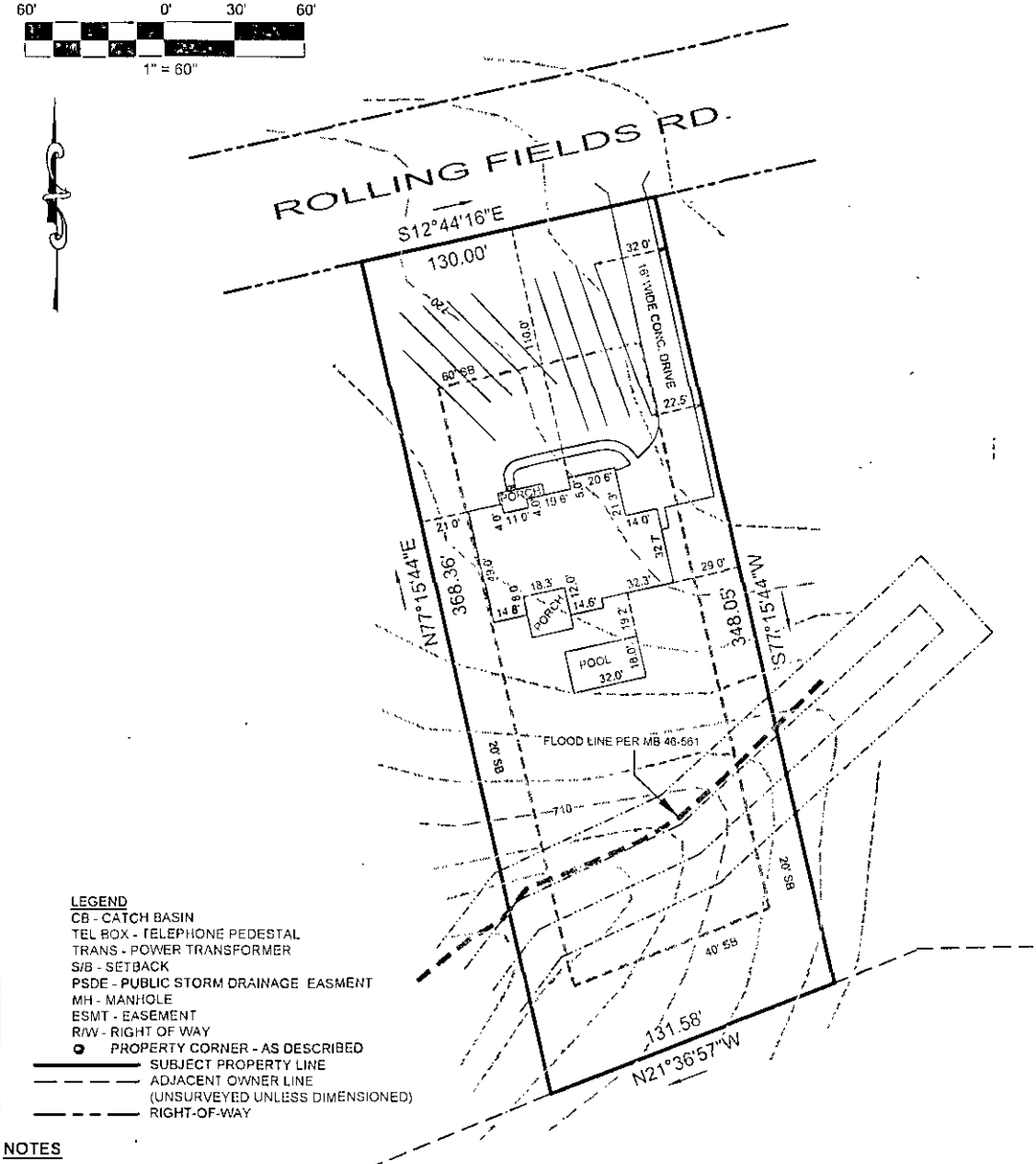
MATTHEW J. STIKELEATHER, NC PLS L-4243

NORTH CAROLINA PROFESSIONAL SEAL L-4243 LAND SURVEYOR MATTHEW J. STIKELEATHER 6-24-15



60' 0' 30' 60'

1" = 60"



LEGEND

- CB - CATCH BASIN
- TEL BOX - TELEPHONE PEDESTAL
- TRANS - POWER TRANSFORMER
- S/B - SETBACK
- PSDE - PUBLIC STORM DRAINAGE EASMENT
- MH - MANHOLE
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- ● PROPERTY CORNER - AS DESCRIBED
- ——— SUBJECT PROPERTY LINE
- — — — ADJACENT OWNER LINE (UNSURVEYED UNLESS DIMENSIONED)
- — - — - RIGHT-OF-WAY

NOTES

1. BEARINGS FOR THIS PLAT ARE REFERENCED TO M.B. 46-561.
2. THIS PROPERTY IS SUBJECT TO ALL EASEMENTS, RIGHTS-OF-WAY, AND RESTRICTIONS OF RECORD. THIS PLAN WAS COMPLETED WITHOUT A FULL TITLE SEARCH PROPERTY IS SUBJECT TO DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS, RECORDED, OR UNRECORDED.
3. 100 YEAR FLOOD LINE SHOWN HEREON TAKEN FROM MB 46-561. THERE IS NOT FLOOD ZONE PER FEMA FLOOD PANEL 3710551200K, EFFECTIVE 2-19-2014.
4. ADJOINING OWNER INFORMATION TAKEN FROM MECKLENBURG COUNTY TAX OFFICE AND ARE CONSIDERED NOW OR FORMERLY.
5. SETBACKS TAKEN FROM M.B. 46-561.
6. UNDERGROUND UTILITIES NOT LOCATED AT THE TIME OF THIS PLAN.
7. TIE LINE DISTANCES SHOWN ARE MEASURED TO THE OUTSIDE FACE OF THE PROPOSED FOUNDATION WALL AND DO NOT ACCOUNT FOR EAVES, OVERHANGS, ETC.

PLOT PLAN PREPARED FOR:

True Homes

SCALE	TOWN	COUNTY	STATE	DATE
1" = 60'	MINT HILL	MECKLENBURG	N.C.	6-24-15

8135 ROLLING FIELDS ROAD

TAX PARCEL 19722118

DEED RECORDED	24802-150
MAP RECORDED	46-561
SURVEYED	CJS
DRAWN	JCK

PROVIDENCE LAND GROUP, PLLC
3716 PROVIDENCE ROAD SOUTH
WAXHAW NC 28173
704.400.0117
NC FIRM # P-0910
SC COA # 4356

Providence

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

Sheet: 1 of 2
Property ID: 197-221-18
Lot #: 3
File #: 9242B
AppID: 7619

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: LJW Land LLC
Address: 7620 Baltusrol Ln, Charlotte, NC 28210
Proposed Facility: 4 Bedroom House
Design Flow (.1949): 480 GPD
Location: 8135 Rolling Fields Rd, Charlotte, NC 28210
Water Supply: [ ] Public [ ] Individual [ ] Well [ ] Spring [X] Municipal
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: owner
Date Evaluated: 7/14/15
Property Size: 1.1ac
Property Recorded: 6/3/09

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	R 2%	0 - 6	wfsbk CL	SS SP FR SEXP	>48"	48	NA	NA		PS IV 0.3	36"
		6 - 48	mfsbk C	S P FI SEXP							
Boring #2	R 2%	0 - 4	wfsbk CL	SS SP FR SEXP	>48"	48	NA	NA		PS IV 0.3	36"
		4 - 48	mfsbk C	S P FI SEXP							
Boring #3	R 2%	0 - 22	wfsbk CL	SS SP FR SEXP	>48"	48	NA	NA		PS IV 0.3	36"
		22 - 48	mfsbk C	S P FI SEXP							
Boring #4	R 2%	0 - 5	Fill		>48"	48	NA	NA		PS IV 0.3	36"
		5 - 22	wfsbk CL	SS SP FR SEXP							
		22 - 48	mfsbk C	S P FI SEXP							

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

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

COMMENTS:

Landscape Position
R-Ridge
SS-Shoulder Slope
LS-Linear Slope
FS-Foot Slope
NS-Nose Slope
HS-Head Slope
CC-Concave Slope
CV-Convex Slope
T-Terrace
FP-Flood Plain
D-Drainage Way

Group	Texture	.1955 LTAR
I	S-Sand LS-Loamy Sand	1.2 - 0.8
II	SL-Sandy Loam L-Loam	0.8 - 0.6
III	Si-Silt SiCL-Silty Clay Loam CL-Clay Loam SCL-Sandy Clay Loam SiL-Silt Loam	0.6 - 0.3
IV	SC-Sandy Clay SiC-Silty Clay C-Clay	0.4 - 0.1

Structure
sg-Single Grain
mass-Massive
cr-Crumb
gr-Granular
sbk-Subangular Blocky
abk-Angular Blocky
pl-Platy
pr-Prismatic
Sap-Saprolite

Structure Prefixes
w-weak
m-moderate
s-strong
f-fine
m-medium
c-coarse

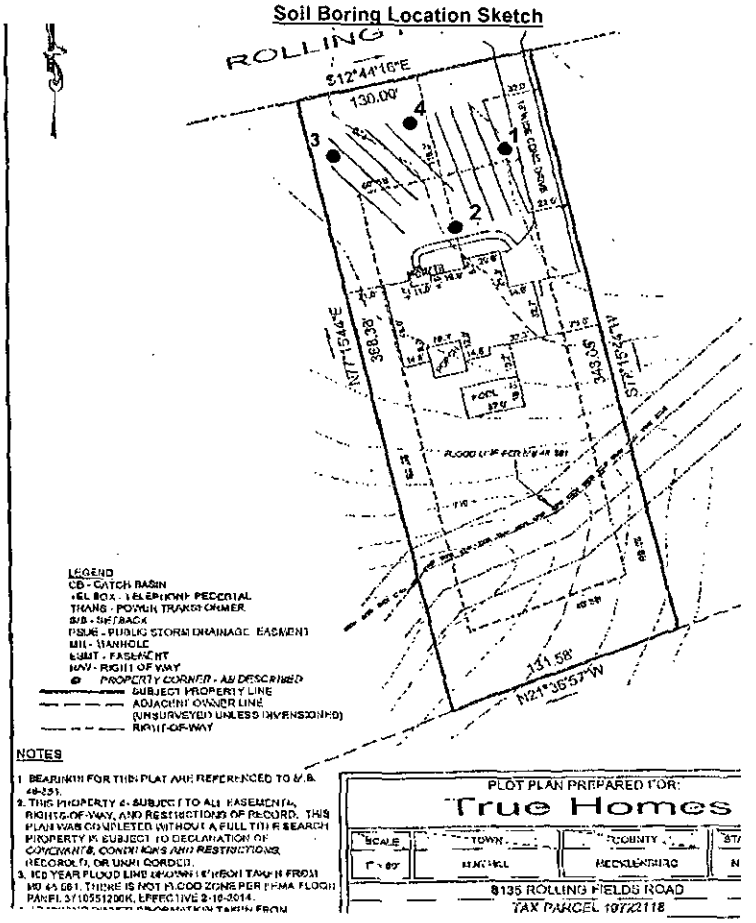
Consistence
Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence
Wet
SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

Mineralogy
SEXP-Slightly Expansive
EXP-Expansive

Classification
US-Unsuitable
PS-Provisionally Suitable
S-Suitable
NA-Not Applicable

Soil Boring Location Sketch



Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

Plantation Falls – Lot 3
8135 Rolling Fields Road
Charlotte, North Carolina

Tax Parcel # 197-221-18
MCGWS File #
July 15, 2015

GWS Septic System Design Review

GWS File #: _____ **Approved** ☐ **Disapproved** ☐

Design Review: _____

Field Review: _____

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

Prepared for:

True Homes
2649 Brekonridge Center Drive
Monroe, NC 28110
704-238-1229



Prepared by:

Larry Thompson, REHS, PWS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
Fax:
larry@thompsonenv.com



cc: Mecklenburg County Groundwater and Wastewater Services

CWS Public System Design Review

CWS Title #: _____ Approved Disapproved

Design [illegible]

[illegible]

[illegible]

Details

True Homes has contracted with Thompson Environmental Consulting, Inc. (TEC) to prepare a septic proposal for a new 4-bedroom single family residence to be located on Lot 3 of the Plantation Falls subdivision in Charlotte, North Carolina.

Based upon a soils investigation performed by TEC on the 1.1 acre lot, TEC has determined that a sufficient amount of "Suitable" Group IV soils are available for the installation of a gravity flow Prefabricated Porous Block Panel System (PPBPS) at a 0.3 long term acceptance rate (LTAR) for both the initial and repair systems. The proposed repair system would be a pressure-dosed PPBPS.

True Homes would like to request that Mecklenburg County Groundwater and Wastewater Services (MCGWS) consider issuing the appropriate permits for a subsurface wastewater treatment and disposal system based upon the following proposal.

Location

The subject property is located at 8135 Rolling Fields Road, Charlotte, North Carolina. From downtown Charlotte, travel east on US 74 and continue on to NC 27 approximately 5.6 miles. Turn right onto Wilgrove-Mint Hill Road. Wilgrove-Mint Hill Road becomes Fairview Road. In 2 miles turn left onto Plantation Falls Lane. Turn left onto Whispering Falls Avenue and left onto Rolling Fields Road. Lot 3 will be located on the right before the cul-de-sac.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, October 2011.

Accepted Wastewater System No. AWWS-05-01; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 2, 2005.

Accepted Wastewater System No. AWWS-05-02-R1; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 2, 2005.

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287
SC Certified Professional Soil Classifier No. 111
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1500 gallons in capacity.
2. The septic tank will be fitted with an approved effluent filter.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tank has had time to properly cure and is free of cracks or other structural deficiencies.

B. Pipe, Fittings and Supply Line

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.
2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.

C. Distribution Method

1. The system will be fed by a distribution box and individual lines will be center-fed utilizing a flow divider for equal distribution.

D. Interceptor Drain

1. Due to the topography of the lot, an interceptor drain is recommended to be installed just upslope of the proposed driveway. The proposed drain is depicted on the septic layout.
2. The depth of the interceptor drain should be a minimum of 24 inches deep and sloped to drain to an outlet that is located away from the proposed septic field.

E. Drainfield Installation

1. The proposed drainfield location has been marked on-site utilizing metal stemmed flags. Once this area has been approved by the county, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the county for a preconstruction conference at which time the drainfield area will be re-verified.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition. If the installer has doubts as to whether or not the drain field area is dry enough to begin construction, the environmental health specialist for this area should be contacted for permission to proceed with the installation.
3. The specified system is a Type IIIe pre-fabricated permeable block panel system – specifically the 16 inch high panel system manufactured by T&J Panel Wastewater Treatment System, Patent No. 4013559; telephone: 1-800-222-2577. The installer must follow the manufacturer's guidelines for installing the T&J Panel System and

should request an installation manual from the manufacturer prior to beginning construction.

4. The initial drain field consists of five (5) lateral trenches, each being 3-feet wide by 54 feet long. TEC proposes to center fed the trenches with flow dividers to avoid the need for pressure dispersal.
5. It is essential that the lateral trenches be constructed on contour with the land, with each trench being excavated level from beginning to end. The use of a tripod mounted engineer's level is essential to assure that each trench is constructed as level as possible.
6. The maximum trench depth for this system shall be **34 inches**. Each trench shall be placed on a minimum of 9-foot on centers.
7. Once trenches are dug, the side walls shall be raked and a light dusting of lime applied.
8. Backfill the trench with 6 inches of sand and level to grade. Once leveled, place 1 x 4 or 6 inch boards on top of the sand the entire length of each trench. Once the grade boards have been set, the panels may be set into the trench. The panels should be placed 6 inches apart.
9. Once the panels have been set, line the top chamber of each panel with 10 – 12 pounds of clean particle sand (medium sand blasting sand). Coverage depth should be approximately 1 inch thick. *Please note that this sand is not the same material specified for backfill.*
10. Tar seal rope, or approved foam, should be placed in the "U" outs of each end of the panel to form seals. Once the tar rope is in place, the Schedule 40 PVC connectors can be added and the seal completed by the addition of more tar rope on the top and sides of the pipe. Now that the connection and seals are complete, a block cap is placed on each end of the panel so that all openings are covered.
11. Once the panels for each trench have been installed and the top of the panels closed, the trench is ready to be backfilled to the top with the sand used in the trench bottom. At this point, the trenches should be left open for the final inspection by the county environmental health specialist.

F. Backfill

3. Backfill sand shall be clean, washed, medium sand that is naturally occurring and falls within the gradation of ASTM C-33 specification (used in the ready mix industry and is readily available).

G. Final Landscaping

1. As previously stated, the final soil cover over the drainfield shall be a minimum of 6 inches deep. Additional soil may need to be brought in to obtain the required cover depth.
2. The drainfield shall be shaped to shed rainwater and be free from low spots.
3. The drainfield area should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

H. Utility Conflicts

1. The builder and property owner must take special care in planning for water, power, gas, telephone and cable lines. These utilities shall be kept clear of all parts of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage and permit revocation. If there are any questions regarding preferred routes, contact Mecklenburg County Groundwater and Wastewater Services (MCGWS) as soon as possible.
2. Lawn irrigation should not be placed over the drain field area.

Maintenance

I. In General

1. The homeowner must maintain the drainfield area through periodic mowing. The drainfield must not be allowed to become overgrown.
2. The septic tank should be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 25 percent of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
3. When it becomes necessary to clean the effluent filter, the filter should be removed and the accumulated debris washed back into the septic tank – not onto the lawn.
4. Any damp areas, leakages or malfunctions in the drainfield area should be addressed immediately.
5. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

Design Specifics

Daily Design Flow:	480 GPD – 4 bedroom house
Interceptor Drain:	Yes – Upslope of Driveway
Septic Tank Size:	1500 gallons (minimum)
Effluent Loading Rate:	Design = 0.3 GPD per sq. ft.
Drain Field Type:	PPBPS
Distribution Method:	Distribution Box
Number of Drainlines:	5
Drain Lines:	(5) 3' Wide x 54 Feet Long

	(Center-Fed with Flow Divider)
Total Trench Length:	270 Linear Feet
Number of Panels per Line:	12
Total Number of Panels:	60
Maximum Trench Depth:	34 inches
Final Cover Requirement:	6 inches (minimum)
Repair System Type:	PPBPS
Repair System LTAR:	0.3 gpd/ft^2
Repair Distribution Method:	Low-Pressure Pipe
Total Length of Repair Lines:	270 Feet
Maximum Repair Line Trench Depth:	34 Inches

PPBPS Design Worksheet												
								File #:				
								Tax #:	19722118			
System Requirements								Address:	Plantation Falls - Lot 3			
Design Flow	480	gpd							Charlotte, North Carolina			
LTAR	0.300	gpd/ft.^2						Consultant:	Larry Thompson			
Linear footage	533	ft. (conventional)						Phone:	704-301-4881			
Linear footage	267	ft. (50% Reduction)										
								Reviewed By:				
Design Layout								Date:				
Laterals	Length (ft)	# Panels										
Line # 1	54	12										
Line # 2	54	12										
Line # 3	54	12										
Line # 4	54	12										
Line # 5	54	12										
Totals	**270**	**60**										
Absorption Area												
Length (ft)	Width (ft)	Area (ft^2)										
270	3	810										
Comments:												
1. Install system using 3 ft. wide trenches.												
2. Install drainlines on 9 ft. centers, level, and on contour.												
3. Lot is required to have a 100% repair area.												

T & J Panels	
Linear Feet	# Panels
50	11
60	14
70	16
80	18
90	21
100	23

Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
704-301-4881

SHEET 1 OF 1

COUNTY: Mecklenburg
TAX ID: 19722118

OWNER: True Homes
LOCATION: Plantation Falls - Lot 3

DATE: June 22, 2015

PROFILES		SB-1	SB-2	SB-3	SB-4	SB-5					
LANDSCAPE POSITION	.1940	ls	ls	ls	ls	ls					
SLOPE (%)	.1940	5%	5%	5%	5%	5%					
HORIZON 1 DEPTH	.1943	0-24	0-50+	0-10	0-12	0-8					
TEXTURE	.1941 (a)(1)		c	cl	cl	cl					
CONSISTENCE	.1941	fi	fi	fr	fr	fr					
STRUCTURE	.1941 (a)(2)	m	sbk	sbk	sbk	sbk					
CLAY MINERALOGY	.1941 (a)(3)		se	se	se	se					
HORIZON 2 DEPTH	.1943	24-30		10-50+	.12-49+	8-51+					
TEXTURE	.1941 (a)(1)	cl		c	c	c					
CONSISTENCE	.1941	fr		fi	fi	fi					
STRUCTURE	.1941 (a)(2)	sbk		sbk	sbk	sbk					
CLAY MINERALOGY	.1941 (a)(3)	se		se	se	se					
HORIZON 3 DEPTH	.1943	30-60+									
TEXTURE	.1941 (a)(1)	c									
CONSISTENCE	.1941	fi									
STRUCTURE	.1941 (a)(2)	sbk									
CLAY MINERALOGY	.1941 (a)(3)	se									
HORIZON 4 DEPTH	.1943										
TEXTURE	.1941 (a)(1)										
CONSISTENCE	.1941										
STRUCTURE	.1941 (a)(2)										
CLAY MINERALOGY	.1941 (a)(3)										
SOIL WETNESS	.1942										
RESTRICTIVE HORIZON	.1944										
SAPROLITE	.1943/.1956										
CLASSIFICATION	.1948	ps	s	s	s	s					
L.T.A.R. (gpd/ft^2)	.1955		0.3	0.3	0.3	0.3					

OTHER FACTORS (.1946):		**SITE LTAR (gpd/ft^2):**	**0.3**
AVAILABLE SPACE (.1945):	provisionally suitable		
SITE CLASSIFICATION (.1948):	provisionally suitable	SYSTEM TYPE:	PPBPS
EVALUATED BY:	Larry Thompson	OTHERS PRESENT:	

COMMENTS: SB-1 appeared to have 24 inches of fill present - likely due to previous road grading operation.

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	07/08/15	**Amount:**	250.00
Receipt #:	95336	**Tendered:**	250.00
Check / Auth #:	CHECK 7025	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #: 200000
Contractor: COLITTI JR, MICHAEL J
Attn:
Address: 1719 SPRING STONE DR
Address:
City/State/Zip: MATTHEWS, NC 28105

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 8135 ROLLING FIELDS RD		1	250.00	250.00

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

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