THOMPSON ENVIRONMENTAL CONSULTING, INC.
WATER • WASTEWATER • WETLANDS

November 13, 2014

Shelby Ledford
Mecklenburg County Groundwater and Wastewater Services
700 N. Tryon Street, Suite 211
Charlotte, NC 28202

Dear Ms. Ledford,

The purpose of this letter is to inform you that I have performed an inspection of the wastewater treatment and disposal system installed for Lot 25 in the Sherwood Forest subdivision. I am satisfied that the installation meets the intent of the original proposal submitted to your office.

Please feel free to call on me if you have any further questions or concerns regarding this project.

Sincerely,

Larry B. Thompson, Jr.

PO BOX 541 • MIDLAND, NC • 28107-0541
PHONE: 704-301-4881 • FAX: 206-350-8895
E-MAIL: LARRY@THOMPSONENV.COM
WEB: WWW.THOMPSONENV.COM

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

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

File #: 85538 Permit #: 5737 Tax Parcel #: 139-276-35

Property Owner: True Homes

Job Location Address: 10925 Flintshire Rd lot 25

City: Charlotte State: NC Zip Code: 28227

Operation Permit Issuance Date: 11/13/14 Contractor Name: Steven's Septic

Permitted Design Flow: 480 GPD

Liquid Capacity of Septic Tank: 1800 gallons

Liquid Capacity of Dosing Tank: 1000 gallons

Effluent Pump Model: Liberty EL 51M 1/2hp

Drainfield Installation ☐ N/A

Trench Depth: 24-36 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 400 feet

# of Lines: 3 @ Varying feet (135', 135', 130')

Depth of Media: 12 inches (Type) 25% Reduction BioA36

Depth of Cover: 12-24 inches

Distribution Device: Pressure Manifold

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

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☐ Municipal ☒ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: >10 feet

Distance from Property Line: >10 feet

Distance from Water Supply Source: >10 feet

Inspection Dates

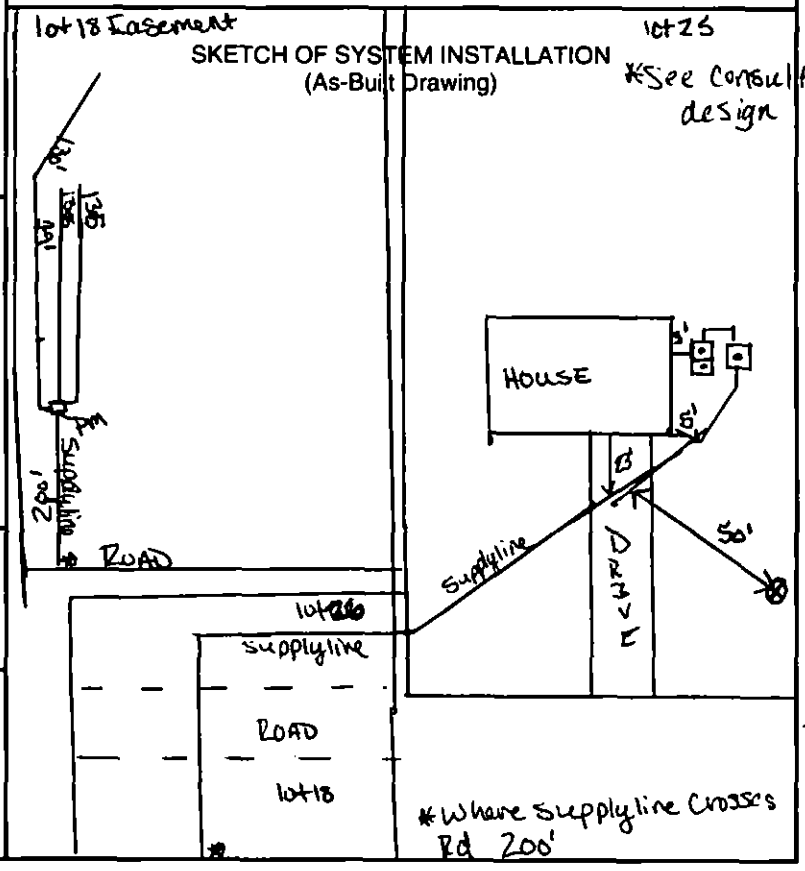
Dellinger STB-338 5/12/14
Dellinger PT-27

Tank(s) Inspected: 8/29/14

Excavation Inspected: 8/29/14

Pump & Controls Inspected: 10/10/14 RWA

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



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

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

Comments: System Classification & Type: III b BioA36/D/na/na

150 gal pre dose Float @ 6½ in. tether. 2 min Run @ 50 gal

DENR Authorized Agent: Shelby Ledford Signature: Shelby Ledford

55"

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NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

File #: 8555B Permit #: 5737 Tax Parcel #: 139-276-35

Property Owner: ~~10925 Flintshire Rd lot 25~~ True Homes

Job Location Address: 10925 Flintshire Rd lot 25

City: Charlotte State: NC Zip Code: 28277

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

*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: Shelby Ledford Date: 10/13/2014

Signature: Shelby Ledford

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

INSTALLATION APPROVAL for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: B563B Permit #: 5737 Tax Parcel #: 139-276-35

Property Owner: True Homes

Job Location Address: 10925 Flintshire Rd. Lot #25

City: Charlotte State: NC Zip Code: 28227

Installation Approval Issuance Date: 7/9/2014

Permission is hereby given to ☑ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge, as specified herein at the described location. This approval is granted based upon the application information submitted to our office. All work shall be completed on or before _____, after which date this approval shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of granting this approval. An **Operation Permit** must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now of hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.
***NOTICE: This system shall not be installed while soils are in a wet condition.**

Permitted Design Flow: 480 GPD
Site LTAR: 0.3 GPD/ft² (For new installations only.)
Liquid Capacity of Septic Tank: 1500 gallons
Liquid Capacity of Dosing Tank: 1000 gallons

Drainfield Design ☐ N/A
Trench Depth: 36 inches
Trench Width: 3 feet
Line Spacing: 9 feet (O.C.)
Total line length: 400 feet
# of Lines: 3 @ 134 feet
Depth of Media: 12 inches (Type) 25% Reduction
Distribution Device: Pressure Manifold

Bed Design *(For Repair Installations ONLY.)* ☒ N/A
Bed Depth: _____ inches
Bed Width: _____ feet
Total line length: _____ feet
# of Lines: _____ @ _____ feet
Depth of Media: _____ inches (Type) _____
Distribution Device: _____

Water Supply Source
☐ Municipal ☒ Private Well ☐ Community Well
☐ Other _____

Minimum System Setbacks
Distance from Building Foundation: 5 feet
Distance from Property Line: 10+ feet
Distance from Water Supply Source: 50+ feet

SKETCH OF SYSTEM LAYOUT
(Proposed Layout)

Install According to approved plan submitted by Thompson Environmental Consulting Inc. and permit on file with MCHD.

Comments: System Classification & Type: IIIbg

DENR Authorized Agent: Jeremy Michael Signature: Jeremy Michael REHS

8553B

MECKLENBURG COUNTY HEALTH DEPARTMENT App # 5737

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: 13927635
STREET ADDRESS: 10925 FLINTSHIRE ROAD
CITY: Charlotte
STATE: NC ZIP: 28227
SUBDIVISION NAME: Sherwood Forest
LOT #: 25 LOT SIZE (acres): 0.937
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: _____
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 5
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: True Homes
ADDRESS: 2649 Brekonridge Centre Dr
CITY: Monroe
STATE: NC ZIP: 28110
WORK PHONE: _____
MOBILE PHONE: 803-389-3387
FAX: _____
E-MAIL: _____

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

NAME: Scott Twiddy
ADDRESS: 1932 Clark Elliott St
CITY: Fort Mill
STATE: SC ZIP: 29708
WORK PHONE: _____
MOBILE PHONE: 803-389-3387
FAX: 800-980-4077
E-MAIL: stwiddy.cds@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.

_____ (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 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

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.

_____ 09 AUG 2012

Property Owner's or Owner's Legal Representative Signature — 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: $ 250 DATE FEE RECEIVED: 8/9/12

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

APPLICATION PROCESSED BY: Lisa

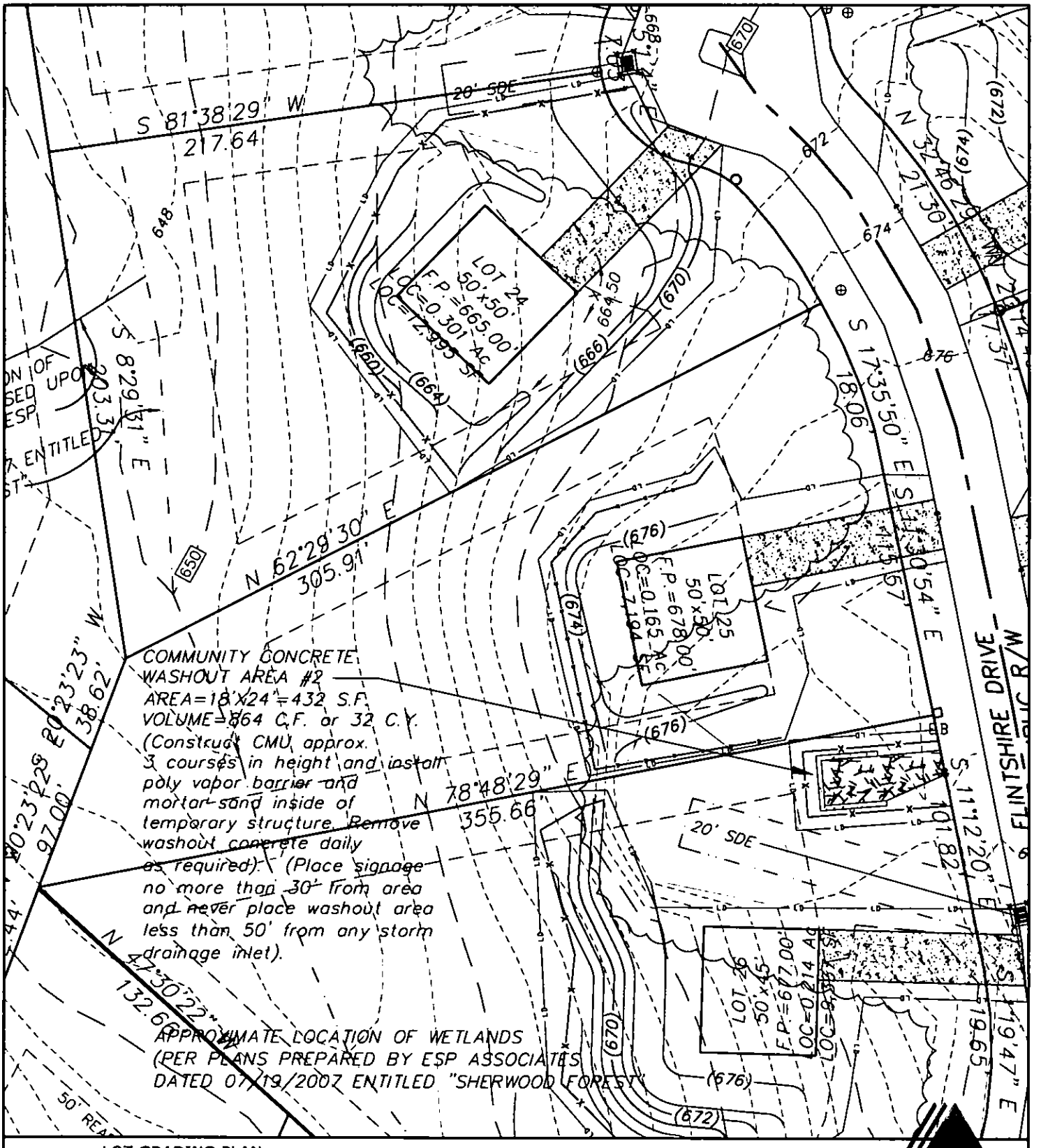
GWS FILE NUMBER ASSIGNED: 8553 B

APPLICATION ID NUMBER ASSIGNED: 5737

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



LOT GRADING PLAN
LOT 25
SHERWOOD FOREST SUBDIVISION
MINT HILL, NORTH CAROLINA
CAROLINA DEVELOPMENT SOLUTIONS, LLC
1932 CLARK ELLIOT STREET
FORT MILL, SOUTH CAROLINA 29708
SCALE 1"=50'

GRAPHIC SCALE
50 25 0 50

summit
landservices
P.O. BOX 7442
CHARLOTTE, NC 28241
OFFICE: 704.506.0554
FAX: 704.504.1125
WWW.SUMMIT-COMPANIES.COM

FEE: 200.00
DATE:7/14/2014

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 8553B

PERMIT NUMBER: 30005737

PARCEL NUMBER: 13927635

JOB LOCATION INFORMATION

ADDRESS: 10925 FLINTSHIRE RD

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

ISSUED TO: True Homes

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 7/7/2014

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30005737, 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. AN INSTALLATION APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH THE MECKLENBURG COUNTY HEALTH DEPARTMENT.

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.
   *CONSTRUCTION AUTHORIZATION EXPIRATION DATE: 7/7/2019

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St. Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-5894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30005737 GWS File #: 8553B Tax Parcel #: 139-276-35

- 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):** 7/7/2019

Type of Installation: Residential - New System Lot Number: 28

Structure Type: HOUSE Size (ft^2): 0 # Bedrooms: 4 # Occupants: 5

Building Foundation: Concrete Slab Water Supply: Private Well

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

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1200	Total Trench Length (ft):	400
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: Pretreatment with Drip Irrigation **System Classification:** Va

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.125	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	1	Trench Spacing (ft):	2	Absorption Area (ft^2):	3840	Total Trench Length (ft):	1920
Maximum Trench Depth (in):	7	Depth of Media (in):	N/A	Distribution Device:	Headworks (Drip Irr.		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, 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 an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

Date Issued: 7/7/2014

Owner/Legal Agent: Jackie Draw P
Print Name

Signature: Jackie Draw P

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 #: 30005737 GWS File #: 8553B

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.
- 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 components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- 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.
- The supply pipe shall be installed with a minimum of 30" of compacted cover over the pipe or properly sleeved under areas that are subject to vehicular traffic.
- 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* MECKLENBURG COUNTY HEALTH DEPARTMENT, *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 an INSTALLATION APPROVAL is granted by the Department.
- The septic system *installer shall* be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

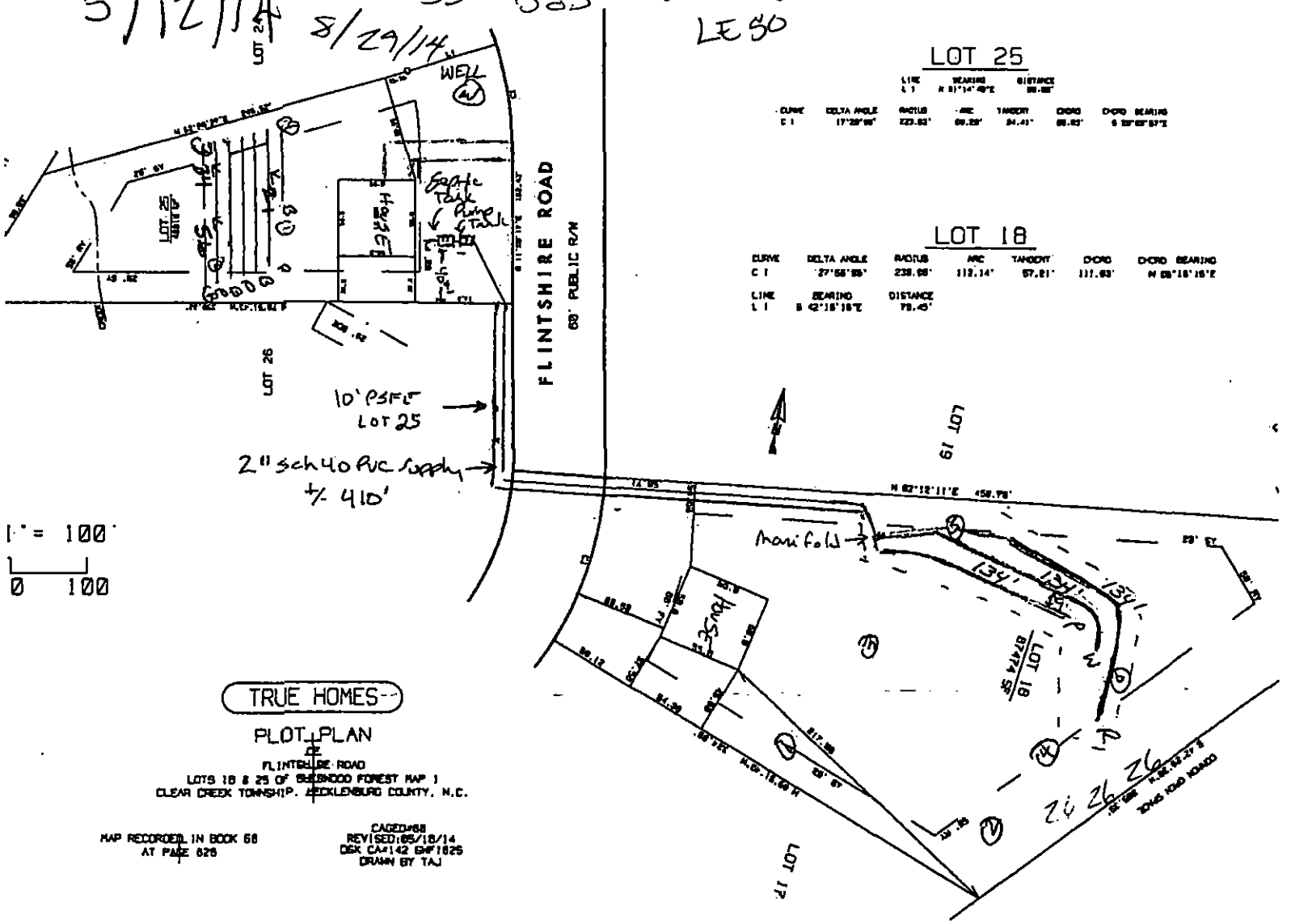
Date Issued: 7/7/2014

Owner/Legal Agent: Jackie Draws

Print Name

Signature: Jackie Draws

Dellinger
5/12/14 STB-538-500 5/29/14
1/2hp
Liberty
LE50
10925 Flintshire Rd



TRUE HOMES

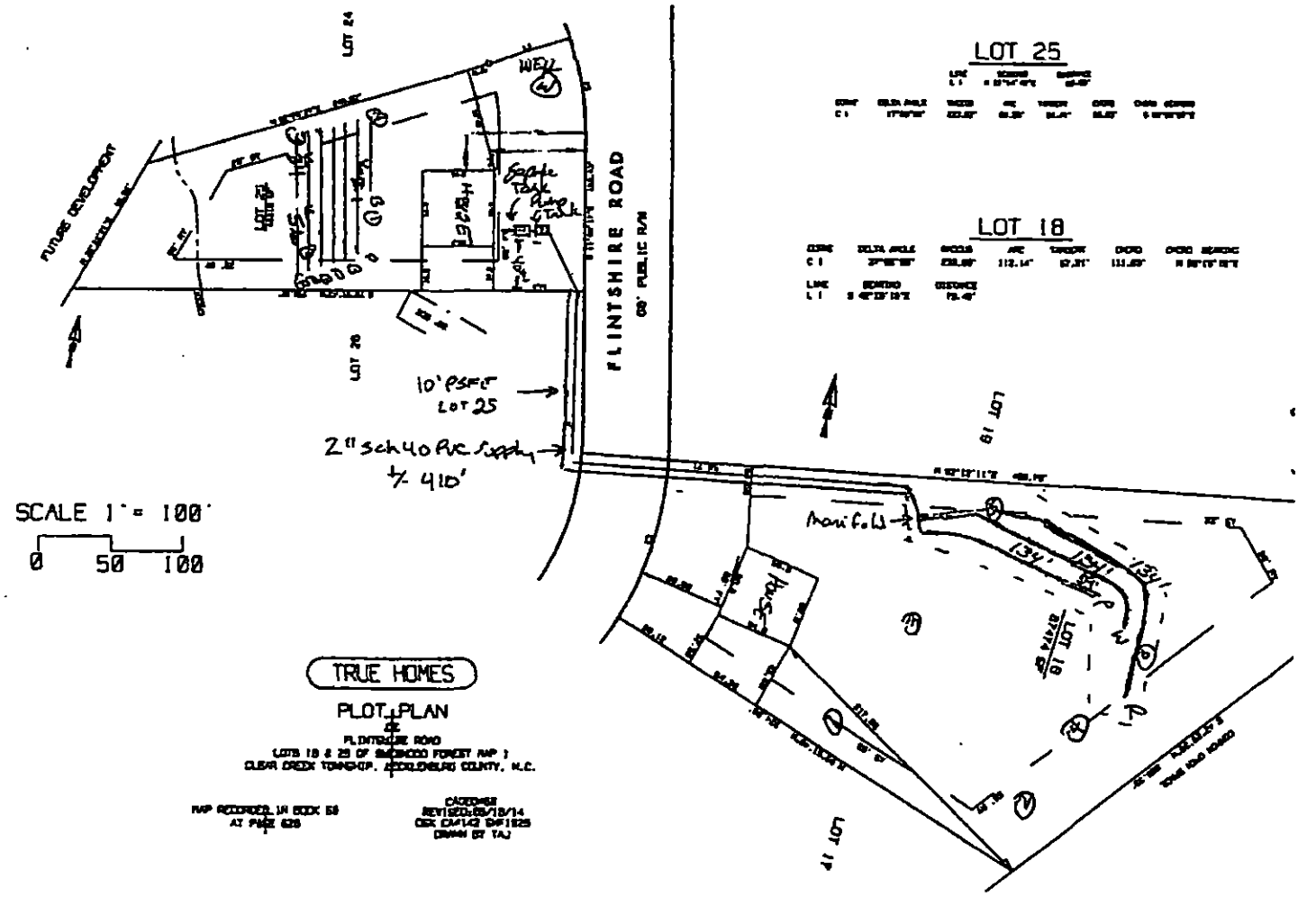
PLOT PLAN

FLINTSHIRE ROAD
LOTS 18 & 25 OF SHERWOOD FOREST MAP 1
CLEAR CREEK TOWNSHIP, MECKLENBURG COUNTY, N.C.

MAP RECORDED IN BOOK 58
AT PAGE 628

CAGED#68
REVISED:05/18/14
DSK CA#142 SHT#625
DRAWN BY TAJ

25



TRUE HOMES

PLOT PLAN

FLINTSHIRE ROAD

LOTS 18 & 25 OF SHERWOOD FOREST MAP 1

CLEAR CREEK TOWNSHIP, MECKLENBURG COUNTY, N.C.

MAP RECORDED IN BOOK 58 AT PAGE 626

CADDMAP
REVISED: 09/19/14
DBK: DM142 DWG: 1825
DRAWN BY: TAJ

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 #: **30005737** GWS File #: **8553B** Tax Parcel #: **139-276-35**

- 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):** 7/7/2019

Type of Installation: Residential - New System Lot Number: 25

Structure Type: HOUSE Size (ft^2): 0 # Bedrooms: 4 # Occupants: 5

Building Foundation: Concrete Slab Water Supply: Private Well

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

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1200	Total Trench Length (ft):	400
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: Pretreatment with Drip Irrigation **System Classification:** Va

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.125	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	1	Trench Spacing (ft):	2	Absorption Area (ft^2):	3840	Total Trench Length (ft):	1920
Maximum Trench Depth (in):	7	Depth of Media (in):	N/A	Distribution Device:	Headworks (Drip Irr.		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, 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 an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael Owner/Legal Agent:_____
Print Name

Signature: Jeremy Michael Signature:_____

Date Issued: 7/7/2014

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 #: **30005737** GWS File #: **8553B**

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.
- 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 components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- 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.
- The supply pipe shall be installed with a minimum of 30" of compacted cover over the pipe or properly sleeved under areas that are subject to vehicular traffic.
- 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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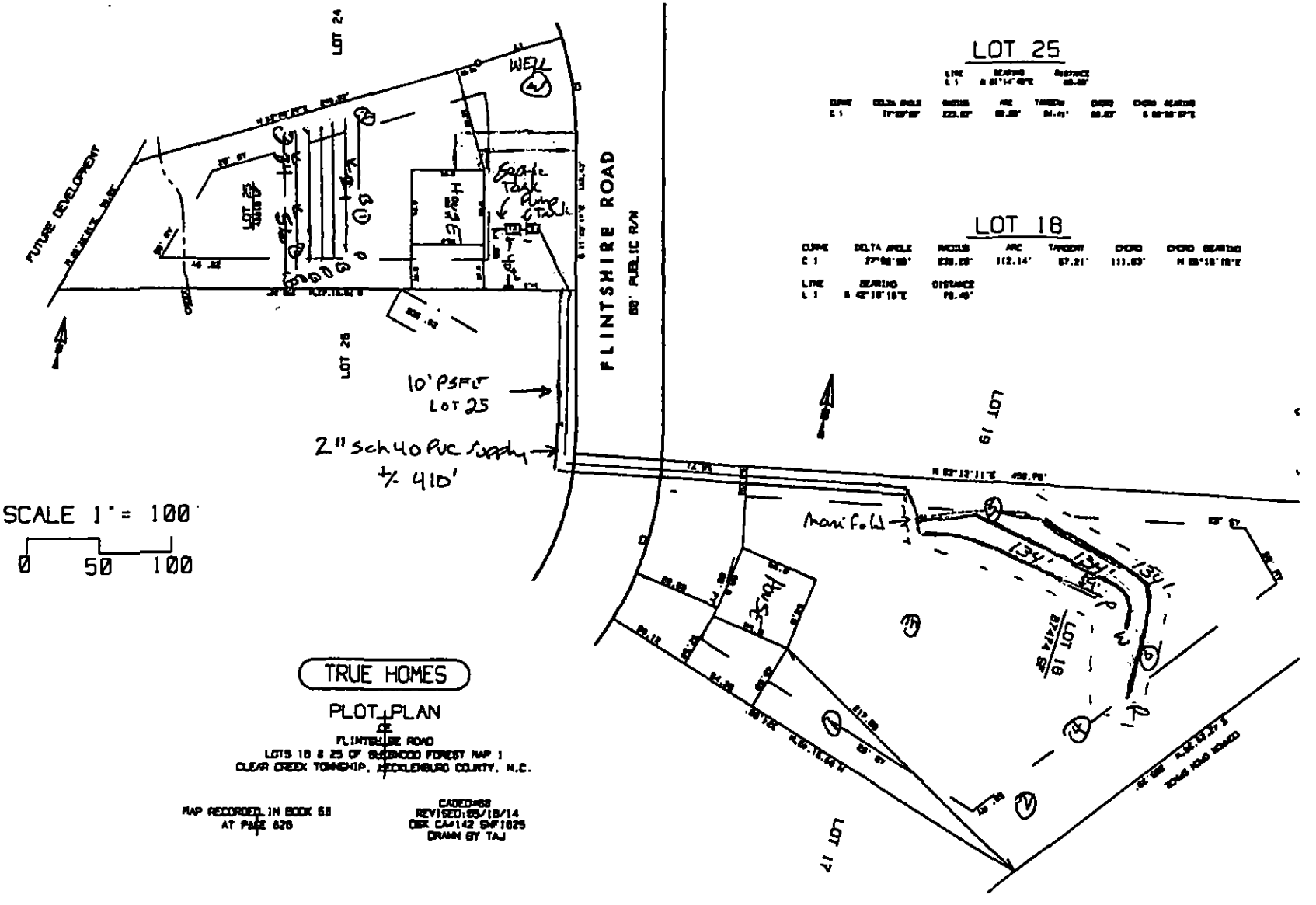
DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

Date Issued: 7/7/2014

Owner/Legal Agent: _____
Print Name

Signature: _____



TRUE HOMES

PLOT PLAN

FLINTSHIRE ROAD

LOTS 18 & 25 OF SHERWOOD FOREST MAP 1

CLEAR CREEK TOWNSHIP, MECKLENBURG COUNTY, N.C.

MAP RECORDED IN BOOK 58
AT PAGE 626

CAGED#68
REVISED: 05/18/14
DSK: CM142 SHF1825
DRAWN BY: TAJ

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

Sheet: 1 of 3
Property ID: 13927635
Lot #: 25
File #: 8553
AppID: 5737

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: True Homes
Applicant: True Homes
Address: 2649 Brekonridge Centre Dr, Monroe, NC 28110
Date Evaluated: 10/3/2012
Proposed Facility: Residence Design Flow (.1949) 480 GPD
Property Size: 0.937
Location of Site: 10925 Flintshire Road Charlotte, NC 28227
Property Recorded:
Water Supply: [ ] Public [ ] Individual [X] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] 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	Profile Class & LTAR
Pit 1	LS	0-15	wfsbk CL	ss sp fr sexp	>45	15	US	PS	US
	15%	15-25	sls ma L	ss sp Vfi sexp					
		25-45	Cr	Cr					
Pit 2	LS	0-21	wfsbk CL	ss sp fi sexp	>48	48	NA	PS	PS IV
	15%	21-48	wfabk C	ss sp fi sexp					0.2
Pit 3	LS	0-3	wfg L	ss sp fr sexp	2.5 YR	47	NA	PS	US
	12%	3-22	wfsbk CL	ss sp fr sexp	7/1				
		22-34	wfabk CL	s p fi	@23"				Drip .1
		34-47	sls ma C	vs vp fi exp					
Pt 4	LS	0-8	wfsbk CL	ss sp fr sexp	2.5 YR 7/1	31	US	PS	US
	13%	8-18	mmabk C	s p fi sexp	@25"		Very		
		18-31	wmabk C	s vp fi exp			Firm		Drip .1
		31-47	sls ma L	ss sp Vfi sexp					
Pit 5	LS	0-9	wfg L	ss sp fr sexp	>45	24	NA	PS	PS IV
	6%	9-15	mmasbk C	ss sp fi sexp					0.225
		14-24	wfsbk CL	s p fi sexp					
		24-45	Cr	Cr					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIb	Va
Site LTAR	0.3*	0.125 drip

** 0.3 LTAR only valid for offsite easement area*

Other Factors (.1946):
Soil Evaluation By: Eric Bailey LSS
Others Present: Jacob Presley LSS
Site Classification (.1948):
Site Evaluation By: Jeremy Mitchell
Others Present:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

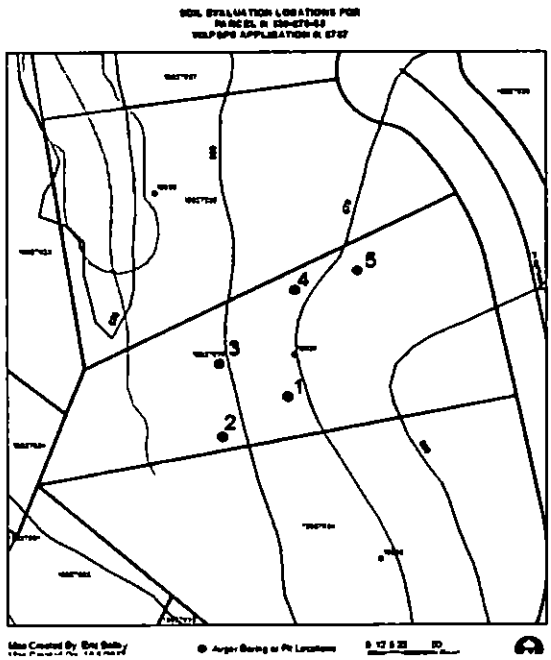
PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941		OTHER PROFILE FACTORS				Profile Class & LTAR
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	
Pit	LS	0 - 8	wfsbk CL	SS SP FR SEXP					
#3	2%	8 - 33	mmsbk C	S P FI SEXP	>54"	54	NA	S	PS IV
easement		33 - 54	wfsbk CL	SS SP FR SEXP					0.3
area									
Pit	LS	0 - 7	wfsbk CL	SS SP FR SEXP					
#4	3%	7 - 31	mmsbk C	S P FI SEXP	>52"	52	NA	S	PS IV
easement		31 - 52	wfsbk CL	SS SP FR SEXP					0.3
area									

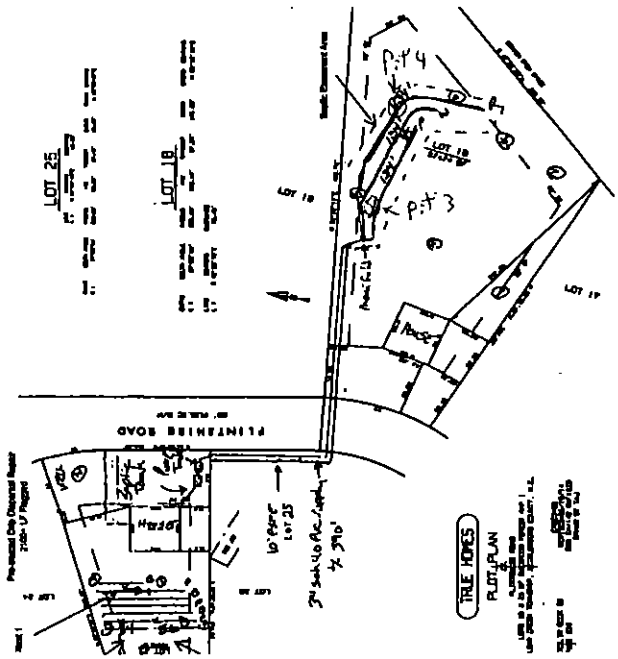
COMMENTS:

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		M-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				
FP-Flood Plain		CL-Clay Loam		
D-Drainage Way		SCL-Sandy Clay Loam		
		SiL- (Silt Loam)		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SiC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	NEXP-(Non-expansive)
FR-Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FI-Firm	S-Sticky	EXP-Expansive
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations





Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

Sherwood Forest – Lot 25
10925 Flintshire Road
Mint Hill, North Carolina

Tax Parcel # 139-276-35
MCGWS File # 8553B
June 5, 2014

GWS Septic System Design Review — Approved ☐ Disapproved ☐

GWS File #: 8553B

Design Review:

Field Review:

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

LICENSED SOIL SCIENTIST — LARRY B. THOMPSON JR. — 1287 — STATE OF NORTH CAROLINA

Prepared for:

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

Prepared by:

Larry Thompson, REHS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
Fax: 206-350-8895
larry@thompsonenv.com

NORTH CAROLINA REGISTERED ENVIRONMENTAL HEALTH SPECIALIST — SEAL 1208 — LARRY B. THOMPSON JR.

cc: Mecklenburg County Groundwater and Wastewater Services

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 25 of the Sherwood Forest subdivision in Mint Hill, North Carolina.

Based upon a soils investigation performed by Mecklenburg County Groundwater and Wastewater Services (MCGWS) on the 0.937 acre lot, as well as a separate investigation performed by TEC, it has been determined that there is not enough available space on Lot 25 for the installation of a subsurface wastewater treatment and disposal system and its required repair area. TEC is proposing that the initial system be installed on Lot 18, via a legal easement, and Lot 25 be considered for approval as a pretreated drip dispersal repair area per the attached septic layout.

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 revised proposal.

Location

The subject property is located at 10925 Fintshire Road in Mint Hill, North Carolina. From downtown Charlotte, travel east on US 74 and continue on to NC 27 approximately 9.1 miles. Turn right onto Cabarrus Road, right onto Ferguson Road and right onto Brief Road. Take the second right onto Friar Tuck Lane and the first right onto Flintshire Road. Lot 25 is located on the left.

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.

Onsite Wastewater Treatment and Disposal Systems; EPA 625/R-00/008 Design Manual, February 2002.

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287
Professional Wetland Scientist No. 1346
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

The drainfield area (both the initial and repair system) for this lot must be protected at all times. TEC recommends that an orange barrier fence be installed around the drainfield area and extend 5 feet beyond any of the individual drainline flags.

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. Pump Tank

1. The pump tank shall be State approved, of one-piece construction, watertight, structurally sound and 1000 gallons in capacity. Again, it is the responsibility of the septic tank contractor to thoroughly inspect each pump tank prior to accepting delivery.
2. All pipe penetrations into the tank shall be booted (i.e., C-293 boot with a stainless steel strap).
3. The pump tank shall have access risers that extend, at a minimum, 6 inches above finished grade and must have less than 36 inches of fill over its top once finished grade has been established (a reinforced concrete tank will be required if finished soil cover is 36 inches or greater in depth).
4. Floats, pump and control circuits, and the control panel shall meet the requirements of Rule .1952(c). Panel and control equipment shall include lightning protection, be protected from unauthorized access, and remain accessible at all times to the system operator.
5. The pump and alarm controls shall be provided with manual circuit disconnects within a watertight, corrosion resistant, Nema 4x rated control panel. The control panel must be securely mounted outside, adjacent to the pump tank riser and at a minimum of 12 inches above finished grade. Pump and float control wiring should be long enough to reach from the tank to the control panel without splicing, routed through wire conduit, and sealed at the openings within the pump tank as well as the control panel enclosure. It is paramount that the conduit is properly sealed to prevent the escape of flammable gases from the pump tank. Furthermore, there must be two electrical circuits for the pump tank controls: one for the pump and one for the alarm controls.
6. Float switch tie downs must be made of a corrosion resistant material (per OWPS, all metal in the tanks shall be stainless steel). Floats should be mounted on a separate "float tree" rather than the pump supply line (see pump tank detail).
7. The pump removal system will be via a pump tether made of nylon rope or its equivalent. The tether material should be resistant to mildew and rot.

C. Pipes and Fittings

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.
3. The supply line from the pump tank to the pressure manifold shall be 2 inch Schedule 40 PVC (approximate length of supply line is 410 feet) and shall have a minimum of 30 inches of compacted fill over the top of the pipe where it crosses the paved portion of Flintshire Road.
4. There shall be a threaded PVC union above each pump to facilitate easy removal of the pumps for maintenance or replacement.

D. Pressure Manifold

1. A pressure manifold shall be used to distribute wastewater equally to each of the three drainlines.
2. The pressure manifold shall be contained within an adequately sized box/vault that will allow future repair lines to be installed and is designed to allow for drainage of effluent that may accumulate in it during flushing and head pressure adjustments. The box should be placed upon a gravel base.
3. A gate valve shall be provided at the pressure manifold box to allow for final pressure adjustment (2 foot of head pressure as per design).
4. The pressure manifold shall be constructed of SCH 80 PVC.
5. There shall be 3 taps (SCH. 40 PVC - direct thread or saddle), ½ inch in diameter, each to have a true union ball valve that will allow for future removal/replacement.
6. The connecting pipe between the Pressure Manifold taps and the drain field shall be constructed of PVC.

E. Drain Field Installation

1. The drainfield has been previously laid out on-site utilizing metal stemmed flags. Once this area has been approved by the MCGWS, the property owner/builder will delineate this area and isolate it from construction traffic. Prior to the system installation, the septic contractor shall contact the MCGWS for a preconstruction conference at which time the drain field area will be re-verified.
2. Under no circumstances shall any construction take place within the drain field 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 MCGWS should be contacted for permission to proceed with the installation.
3. The specified system is a shallow placed approved accepted system; the EZ*flow* 1203H, Infiltrator Quick4 Standard Chamber System, or other approved system with a 25% reduction approval may be used.
4. The drain field consists of three (3) lateral trenches to be constructed 3 foot wide by 134 feet in length (minimum).
5. The maximum trench depth for this system shall be **36 inches**.
6. The laterals are to be installed on contour with the land, keeping the individual trench bottoms level from beginning to end.

7. The trenches should be left open for the final inspection by the MCGWS.

F. Final Landscaping

1. Final cover over the drainfield shall be at least 6 inches deep.
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.

G. 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 the MCGWS as soon as possible.
2. Lawn irrigation should not be placed over the drain field area.

Maintenance

H. 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
Septic Tank Size:	1500 gallons (2 compartments)
Pump Tank Size:	1000 gallons (one piece const.)
Effluent Loading Rate:	Design = 0.3 GPD per sq. ft.
Drain Field Type:	Accepted 25% Reduction
Supply Line:	+/- 410 Feet (2 inch SCH 40)
Distribution Method:	Pressure Manifold
Number of Taps:	3
Tap Size:	½ inch Schedule 40 PVC
Drain Lines:	(4) 3' Wide x 134' Long
Maximum Trench Depth:	36 inches
Final Cover Requirement:	6 inches (minimum)
Pump Requirements:	21.33 GPM at 50 Feet TDH
Pump Specified:	Sta-Rite STEP 20 High Head (or equivalent)
Check Valve Required:	Yes
Effluent Loading Rate for Repair System:	0.12 GPD per sq. ft.
Repair Drainfield Type:	Pretreated Drip Dispersal
Repair Drainfield Square Footage:	4000
Total Length of Drip Tubing:	2000
Maximum Trench Depth:	7 inches
Final Cover Requirement:	6 inches (minimum)

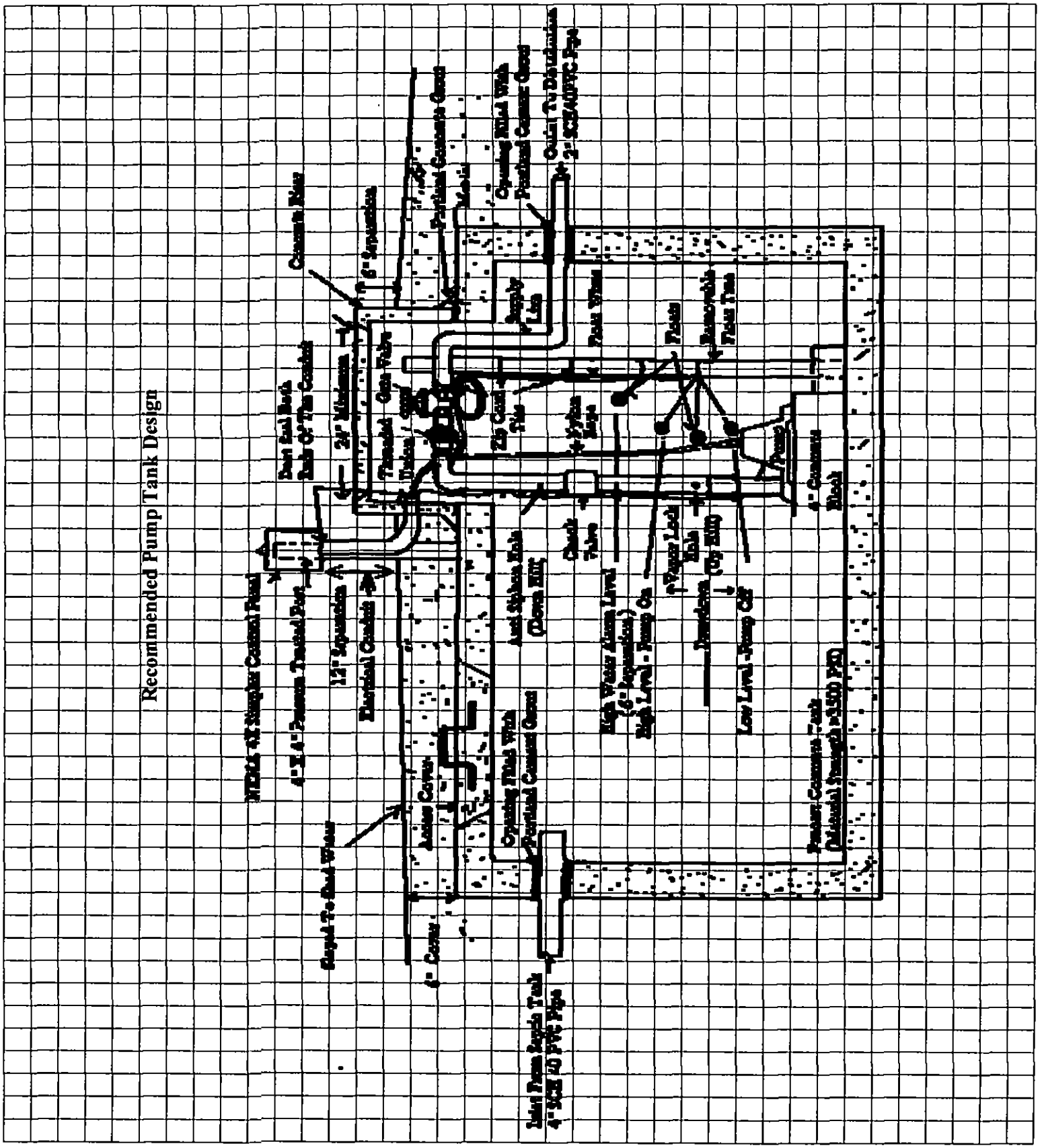
Thompson Environmental Consulting
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 139-276-35

Location: Sherwood Forest – Lot 25

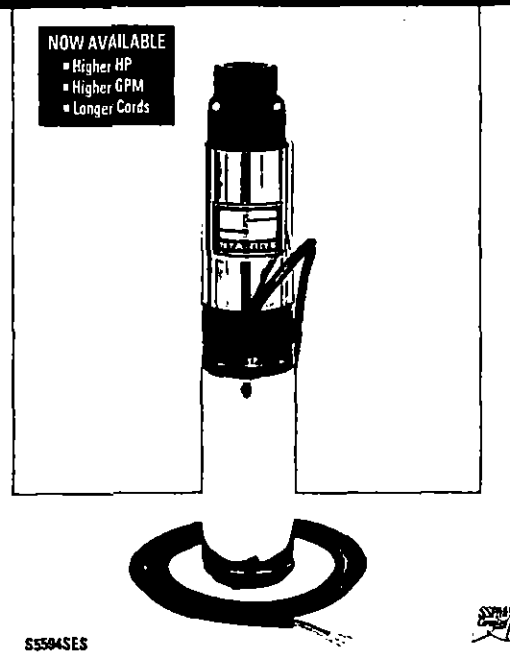
Date: May 28, 2014

Recommended Pump Tank Design



ST.E.P. PLUS®
SERIES

NOW AVAILABLE
- Higher HP
- Higher GPM
- Longer Cords



S5594SES

KEY FEATURES

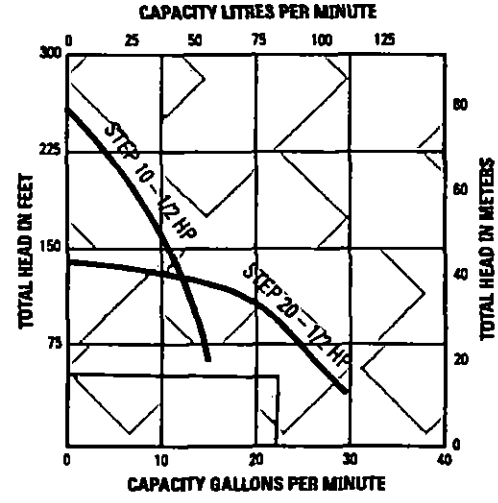
- 1/2, 1 or 1-1/2 HP, 115 or 230 Volt, single-phase, 2-wire
- Superior performance
- Stainless steel and composite construction
- Exclusive industry dry-run capability
- Enclosed and self-lubricated Nylatron® shaft-bearing resists wear from sand
- Heavy 3/8" (9.5mm) or 7/16" (11.1mm) positive drive 300 Series stainless steel hexagonal shaft
- Serviceable fiberglass reinforced thermoplastic intake screen
- The 10, 20, 30 and 50 GPM are industry standard 3-3/4" in diameter

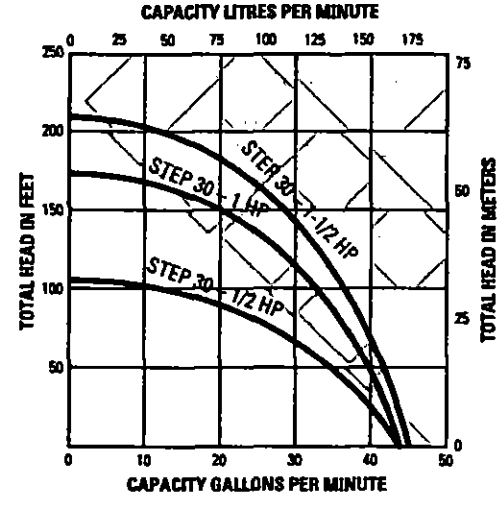
SPECIFICATIONS

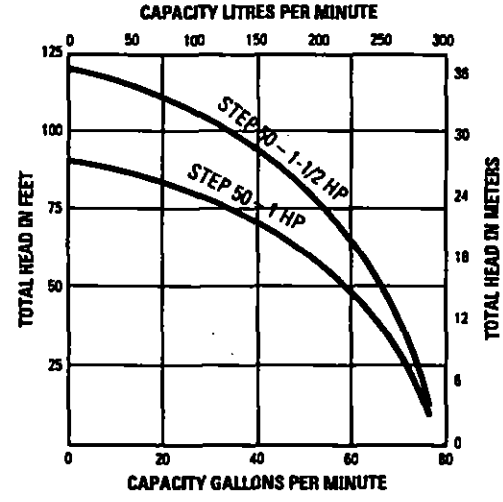
Applications:	Filtered Effluent
Capacities:	10 GPM – 50 GPM (37.9 LPM – 189.3 LPM)
Heads:	27 FT – 255 FT (8.2 M – 77.7 M)
Motor:	Water-filled, hermetically sealed, thermal overload protected, NEMA standard
Electrical:	115 or 230 Volt, 1Ph, 60Hz
Operations:	Manual model (controls required)
Minimum Diameter:	4" (102mm)
Staging:	(6) - 10 GPM (37.9 LPM); (5) - 20 GPM (75.7 LPM); (3) - 1/2 HP, 30 GPM (113.6 LPM); (5) - 1 HP, 30 GPM (113.6 LPM); (6) - 1-1/2 HP, 30 GPM (113.6 LPM); (3) - 1 HP, 50 GPM (189.3 LPM); (4) - 1-12/ HP, 50 GPM (0 189.3 LPM)
Solids:	1/8" (3.2mm)
Power Cord:	300 Volt "SOOW" jacketed 10 FT leads (2-wire with ground); optional 20, 30, 50 and 100 FT lengths available
Materials of Construction:	300 grade stainless steel and engineered composites

MODEL NUMBER

- STEP10
- STEP20
- STEP30-05221
- STEP30-05121
- STEP30-10221
- STEP30-15221
- STEP50-10221
- STEP50-15221







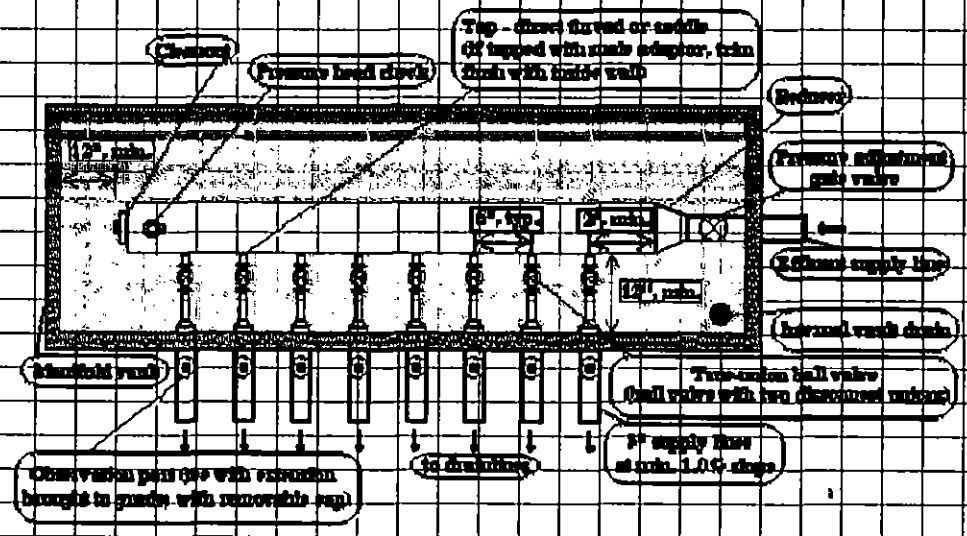
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107

Tax ID Number: 139-276-35

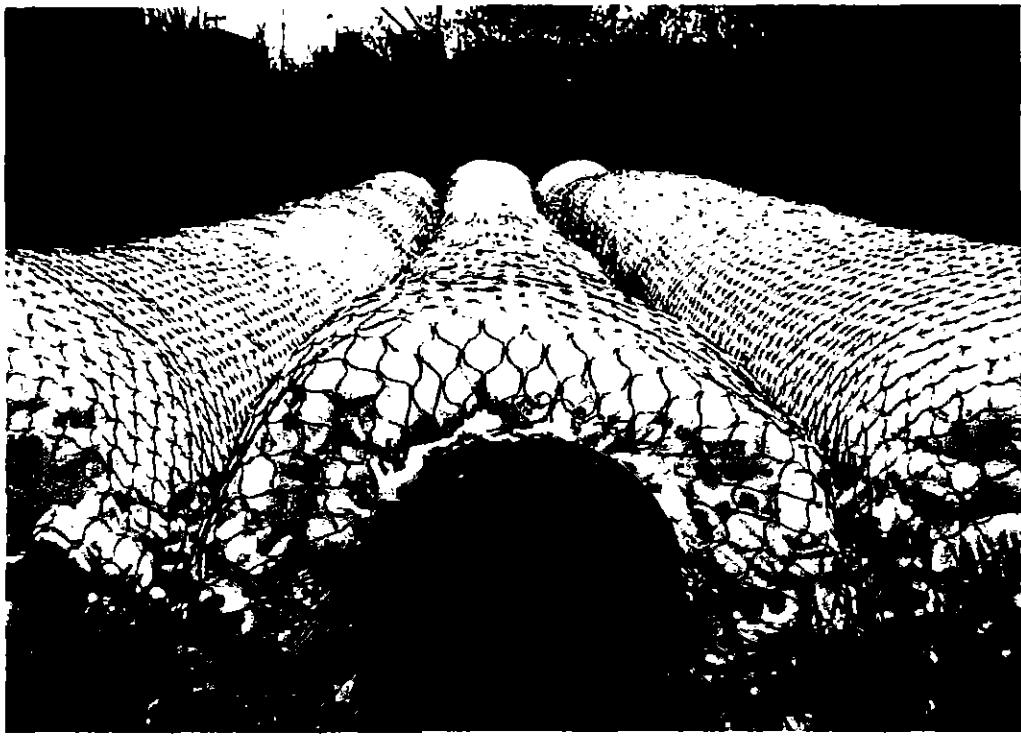
Location: Sherwood Forest – Lot 25

Date: May 28, 2014

Recommended Pressure Manifold Design



EZ*flow* by INFILTRATOR



EZ*flow* by Infiltrator is an environmentally friendly replacement to traditional stone and pipe drainfields using an engineered geosynthetic aggregate modular design. The **EZ*flow*** system is designed to improve infiltration performance by eliminating the fines associated with crushed stone, and reducing compaction and embedment associated with stone. Preassembled units include a 3" or 4" perforated pipe surrounded by aggregate and held in place with a durable high-strength netting. This product comes in easy-to-contour 5' and 10' lengths and in diameters of 7, 8, 9, 10, 12, 13, or 14 inches.

Compared with stone and pipe, benefits include:

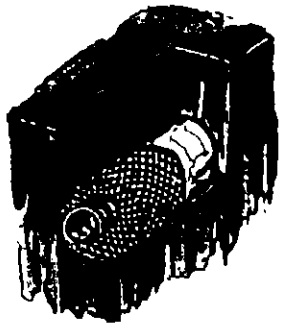
- Always clean and free of fines
- Bundles are quick to install, saving costs on heavy machinery and labor
- Modular construction allows configurations to match trench dimensions for most system shapes and sizes
- Engineered for optimal storage and absorption efficiencies
- Ability to contour along sloped sites and around trees or landscaping
- Lightweight system is perfect for repairs and tight job sites
- Easily hand-carried into position reducing time and labor
- 5' or 10' lengths with simple snap, internal couplers
- Easier cleanup at the job site with the elimination of stone
- Manufactured from recycled materials rather than a mined natural resource
- A wide variety of diameters and configurations to meet any installation professional's needs
- Approved in many jurisdictions with an increased efficiency rating, reducing drain field size
- Also useful for foundation and other drainage applications
- Backed by the leader in the onsite wastewater industry

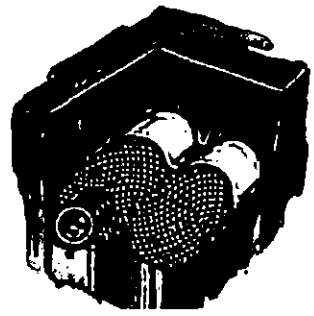
EZ*flow*™ by INFILTRATOR

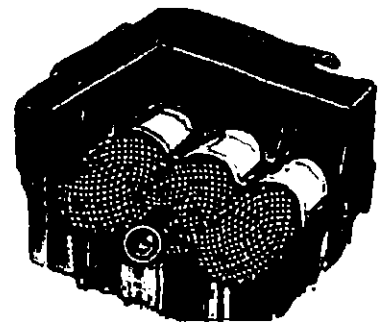
For technical assistance, installation instructions or customer service, call Infiltrator Systems at 800.689.7759.

EZ*flow* by INFILTRATOR

Configurations: Available in 7", 8", 9", 10", 12", 13" and 14" diameter bundles.





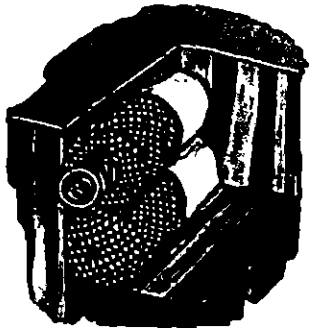


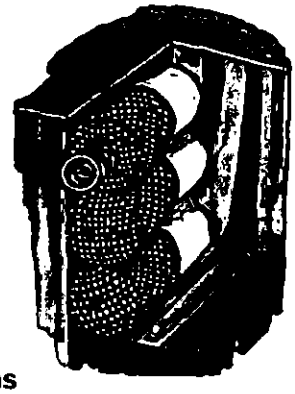
Single Pipe Systems

0701P-GEO
0801P-GEO
1001P-GEO
1001LPP-GEO
1201P-GEO
1201LPP-GEO
1401P-GEO

Horizontal Systems

0705H-GEO
0904H-GEO
1002H-GEO
1003H-GEO
1006H-GEO
1202H-GEO
1203H-GEO
1203HP-GEO
1206H-GEO
1209H-GEO
1303H-GEO
1402H-GEO







Vertical Systems

1002V-GEO
1003V-GEO
1004V-GEO
1006V-GEO
1202V-GEO
1203V-GEO
1204V-GEO
1206V-GEO
1402V-GEO

Triangular Systems

1003T-GEO
1203T-GEO
1303T-GEO
1403T-GEO

Notes:

1. Other systems include 12" square and 10" and 12" bed systems. Bed systems will dictate the number of bundles.

2. System dimensions are dependent upon bundle diameter and configuration.

3. LLP is for "Low Pressure Pipe" in which a pressurized distribution pipe is field installed within the corrugated pipe.

4. Internal pipe and couplings meet the requirements of ASTM F405.

5. Bundles are also available without geotextile between the netting and synthetic aggregrate.

INFILTRATOR SYSTEMS INC. STANDARD LIMITED WARRANTY

(a) The structural integrity of each EZflow by Infiltrator expanded polystyrene drainfield system and other accessories manufactured by EZflow by Infiltrator ("Units"), when installed and operated in a leachfield of an on-site septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units, provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by EZflow by Infiltrator to be covered by this Limited Warranty. EZflow by Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b)THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

(c) This Limited Warranty shall be void if any part of the EZflow system is manufactured by anyone other than EZflow by Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions, the placement of improper materials into the system containing the Units, failure of the Units or the septic system due to improper sizing or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

* * * * * * *

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

INFILTRATOR®
systems inc.

6 Business Park Road • P.O. Box 768
Old Saybrook, CT 06475
860.577.7000 • FAX 860.577.7001

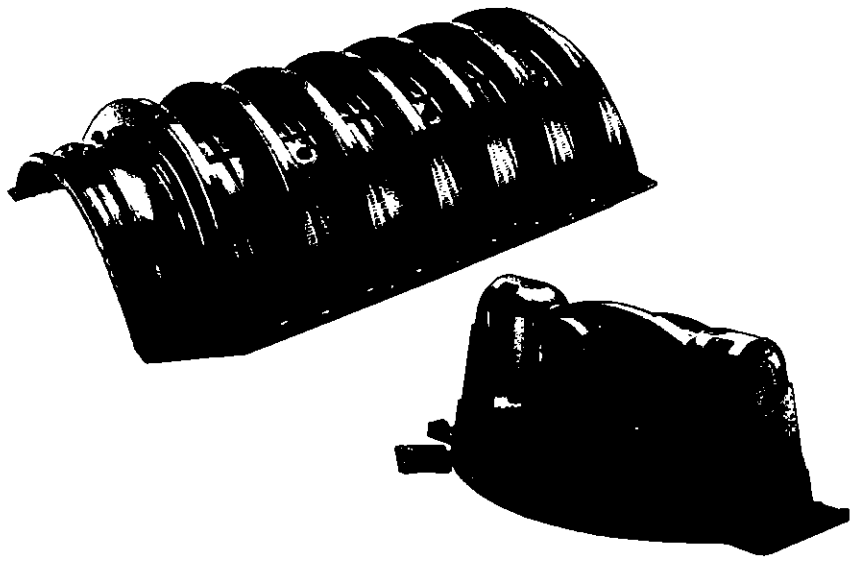
800.689.7759
www.ezflowlp.com
www.infiltratorsystems.com

For technical assistance, installation instructions or customer service, call Infiltrator Systems at 800.689.7759.

Infiltrator is a registered trademarks of Infiltrator Systems Inc. Infiltrator is a registered trademark in France. Infiltrator Systems Inc. is a registered trademark in Mexico. © 2009 Infiltrator Systems Inc. Printed in U.S.A.

The **Quick4® Standard** Chamber

INFILTRATOR®
systems inc.





The evolutionary patent-pending Quick4® Standard Chamber fits in a 36" wide trench and is ideal for curved or straight systems. It features the patent-pending Contour Swivel Connection™ which permits 10-degree turns, right or left. The MultiPort™ end cap allows multiple piping options and eliminates pipe fittings. The chamber's four-foot length provides optimal installation flexibility.

The Quick4 Standard Chamber Offers You These Unique Benefits:

- Advanced contouring connections swivel 10-degrees, right or left
- Latching mechanism allows for quick installation
- Compact nesting provides more trench length in an equivalent stack height
- Four-foot chambers are easy to handle and install
- The Quick4 Standard Chamber supports wheel loads of 16,000 lbs/axle with only 12" of cover
- Certified by the International Association of Plumbing and Mechanical Officials (IAPMO)

The MultiPort End Cap Offers These Unique Benefits:

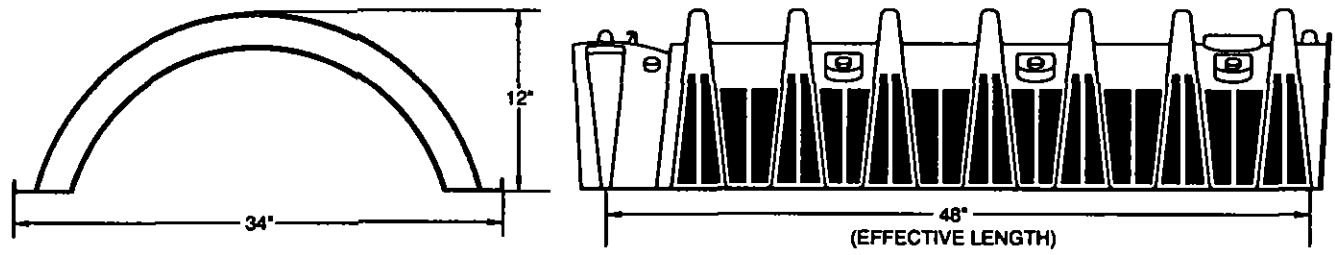
- Patent-pending tear-out seals on inlet ports provide a tight fit to the pipe
- Eight molded-in inlets/outlets allow for maximum piping flexibility
- Multiple ports eliminate pipe fittings and make looping ends easy
- Patent-pending MultiPort end cap fits on either end of the Quick4 Standard Chamber

Infiltrator is the number-one septic leachfield chamber system in the onsite industry, with over 42 million units in-ground in all 50 states and 24 countries.

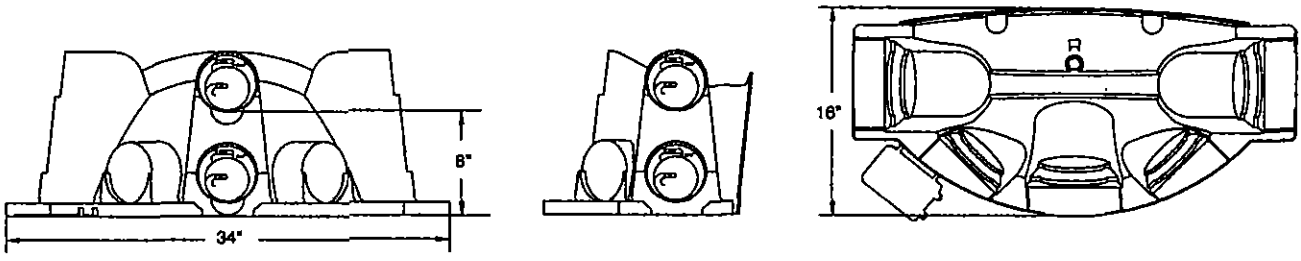
Approved in _____

The **Quick4® Standard** Chamber

The Quick4 Standard Chamber



MultiPort End Cap



FRONT VIEW | SIDE VIEW | TOP VIEW

Quick4 Standard Chamber Specifications

Size (W x L x H) .....34" x 53" x 12" (86 cm x 135 cm x 31 cm)	Louver Height.....8" (20 cm)
Effective Length .....48" (122 cm)	Invert Height.....8" (20 cm)

INFILTRATOR SYSTEMS, INC. STANDARD LIMITED WARRANTY

(a) The structural integrity of each chamber, end cap and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b)THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

(c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper sting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

.....

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

INFILTRATOR®
systems inc.
6 Business Park Road • P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • FAX 860-577-7001

1-800-221-4436
www.infiltratorsystems.com

For technical assistance, installation instructions or customer service, call Infiltrator Systems at 1-800-221-4436.

U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844
Canadian Patents: 1,329,959; 2,004,584 Other patents pending.

Infiltrator, Equalizer, Quick4 and SideWinder are registered trademarks of Infiltrator Systems Inc. Infiltrator is a registered trademark in France. Infiltrator Systems Inc. is a registered trademark in Mexico. ChamberSpacer, Contour, Contour Swivel Connection, MicroLeaching, MultiPort, PolyTuff, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Systems Inc. © 2006 Infiltrator Systems Inc. Printed in U.S.A.

For Registration J. David Granberry
Register of Deeds
Mecklenburg County, NC
Electronically Recorded
2014 May 01 02:22 PM RE Excise Tax: $ 0.00
Book: 29150 Page: 507 Fee: $ 26.00
Instrument Number: 2014047011

This instrument was prepared by: Hinson Faulk, P.A.
Mail after recording to: Hinson Faulk, P.A., 309 Post Office Dr., Indian Trail, NC 28079

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

SEPTIC SYSTEM EASEMENT AGREEMENT AND DECLARATION OF EASEMENT

This EASEMENT made this 30th day of April, 2014, by and between

GRANTOR:	GRANTEE:
B & C Land Holdings, LLC A North Carolina limited liability company	**B & C Land Holdings, LLC** A North Carolina limited liability company
Mailing Address: 2649 Brekonridge Centre Dr. Monroe, NC 28110	Mailing Address 2649 Brekonridge Centre Dr. Monroe, NC 28110

Enter in appropriate block for each party: name, address, and, if appropriate, character or entity, e.g., corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee an easement as hereinafter described, and does hereby establish and declare upon the property hereinafter described, to run with the land upon that certain lot or parcel of land owned by Grantor and located in the city of Mint Hill, Clear Creek Township, Mecklenburg County, North Carolina, referred to herein as the "Easement Parcel" and more particularly described as follows:

BEING all of Lots 18 and 26 of SHERWOOD FOREST as shown on a plat recorded in Map Book 50 Page 626, Mecklenburg County Public Registry. Mecklenburg Tax Parcel Nos. 13927642 and 13927634

Submitted electronically by "Hinson Faulk, P.A."
in compliance with North Carolina statutes governing recordable documents
and the terms of the submitter agreement with the Mecklenburg County Register of Deeds.

See the plat attached hereto as Exhibit B and the parcels identified thereon as Lots 18 and 26. The Easement shall be located upon the portion of Lot 18 described on "Exhibit A" attached hereto and incorporated herein by reference, to be referred to herein as the "Septic System Easement Area" and that portion of Lot 26 described on Exhibit A as the "Utility Access Easement", being a strip of land approximately 10 feet in width on Lot 26 along the boundary with the Flintshire Drive right of way. The Septic System Easement Area and the Utility Access Easement shall be referred to together herein as the "Easement Area". A map of the Easement Area is attached hereto as "Exhibit B" for illustrative purposes.

Grantor hereby imposes said easement for the benefit of Grantee as the present owner and for the benefit of future owners of the following lot or parcel of land, situated in the City of Mint Hill, Clear Creek Township, Mecklenburg County, North Carolina, hereinafter referred to as the "Benefited Parcel" and more particularly described as follows:

> BEING all of Lot 25 of SHERWOOD FOREST as shown on a plat recorded in Map Book 50 Page 626, Mecklenburg County Public Registry. Mecklenburg Tax Parcel No. 13927635

Said Easement shall enable the Grantee to place, if, as and when needed, such need to be determined by the Grantee in his sole discretion, a septic tank and drain field or portions thereof, upon the Septic System Easement Area on the Easement Parcel and to inspect, maintain, repair and replace components of said septic system at any time and from time to time. If the Easement Area also includes a connector strip for ingress and egress, Grantee shall have the right to use said connector strip for access as needed.

This Easement may not be altered, amended or cancelled without the express written permission of the Mecklenburg County Health Department, which written permission must be part of any document recorded to alter, amend or cancel this Easement.

This Easement shall automatically expire, however, should Grantee ever hook up the structure located or to be located on the Benefited Parcel to a public or community sanitary sewage system but shall otherwise be perpetual.

Grantor acknowledges that the Septic Tank System Easement Area cannot be used and will not be used for any of the following activities or in any of the following ways:

- Grading or filling
- Parking or driving heavy equipment in the area or in any other way compacting the soil in the Area
- Excavating soil from the Area
- Placing footings or foundations or engaging in any other construction activity in the Area
- Placing in-ground or above-ground swimming pools in the Area
- Placing irrigation systems in the Area

- Placing underground utility lines or cables in the Area
- Planting trees or gardens in the Area
- Removing any large trees in the Area unless dead or diseased
- Using the Area for the burial of stumps, trash, or any other type of construction material
- Using the Area for gravesites
- Diverting the natural flow of water onto the Area by way of drainage ditches or diversion ditches or using the Area to receive water from any gutter or downspout discharges

IN WITNESS WHEREOF, the Grantor and Grantee have hereunto set their hands and seals, or if corporate, have caused this instrument to be signed in their corporate names by their duly authorized officers and their seals to be hereunto affixed by authority of their Boards of Directors, the day and year first above written.

GRANTOR

B & C Land Holdings, LLC

BY: _____ _____ (SEAL)
Ben Russell Manager

ATTEST: _____ (SEAL)

_____ _____ (SEAL)

_____ Secretary (Corporate Seal)

SEAL-STAMP

North Carolina, Union County ~~Mecklenburg~~

I, Shelley K. Levine, a Notary Public of the County and State aforesaid, certify that Ben Russell personally came before me this day and acknowledged the he is the Manager of B & C Land Holdings, LLC, a North Carolina limited liability company, and that by authority duly given and as the act of the limited liability company, the foregoing instrument was signed in its name by its Manager, ~~sealed with its corporate seal, and attested by~~ _____ ~~as its~~ _____ ~~Secretary.~~

WITNESS my hand and official stamp or seal, this 30 day of April, 20 14.

My Commission Expires: 07.29.2018

_____
(Notary Public)

SHELLEY K. LEVINE NOTARY PUBLIC MECKLENBURG COUNTY, NC

GRANTEE

B & C Land Holdings, LLC

BY: Ben Russell _____ (SEAL)
Ben Russell Manager

ATTEST: _____ (SEAL)

_____ _____ (SEAL)
_____ Secretary (Corporate Seal)

SEAL-STAMP

North Carolina, Union County

I, Shelley K. Levine, a Notary Public of ~~the~~ Mecklenburg County and State aforesaid, certify that Ben Russell personally came before me this day and acknowledged the he is the Manager of B & C Land Holdings, LLC, a North Carolina limited liability company, and that by authority duly given and as the act of the limited liability company, the foregoing instrument was signed in its name by its Manager, ~~sealed with its corporate seal, and attested by~~ _____ ~~as its~~ _____ Secretary.

WITNESS my hand and official stamp or seal, this 30 day of April, 20 14.

My Commission Expires: 07-29-2018

SHELLEY K. LEVINE NOTARY PUBLIC MECKLENBURG COUNTY, NC

(Notary Public)

Approval by the Mecklenburg County Health Department does not certify or extend to matters of title. The purchaser of property subject to or affected by this easement is responsible for ascertaining all matters affecting the validity and enforceability of this instrument.

EXHIBIT A

Septic Easement and Utility Access Easement
For Lot 25 at Sherwood Forest

Utility Access Easement

Beginning at the southwest front corner of lot 25 and runs along the line side line of lots 25&26 S78-51-43W 10.00' to a point then on lot 26 S11-08-17E 100.60' to a point, thence along an arc with an arc distance of 19.33', radius of 160.00', a chord distance of 19.31' and a chord direction S7-40-39E to a point on the right-of-way of Flintshire Drive, thence along the right-of-way along an arc with an arc distance of 19.91', radius of 170.00', a chord distance of 19.90 and chord direction of N7-46-59W to a point, thence continuing with the right-of-way N11-8-17W 100.60' to the point of beginning containing 1,202 square feet.

Septic Easement

Beginning on the right-of-way of Flintshire and the shared front corner of lot 18 and lot 19, thence with the right-of-way of Flintshire Drive along an arc with an arc distance of 10.00', a radius of 230.00', a chord distance of 10.00 and a chord direction of N6-33-6E, thence on lot 18 N82-12-11E 133.96' to a point, thence S79-19-54E 193.81' to a point, thence S18-12-43E 73.90' to a point, thnceN38-46-25E18.16' to a point, thence N3-43-52E 107.56' to a point, thence N83-55-42W 109.24' to a point in the shared side line of lots 18&19, thence along the shared side line S82-12-11W 259.69' to the point of beginning containing 12,351 square feet.

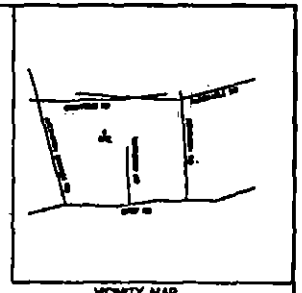
EXHIBIT B

Map Showing Septic Easement and Utility Access Easement for Lot 25 Sherwood Forest
Prepared by Summit Land Services
Dated April 29, 2014

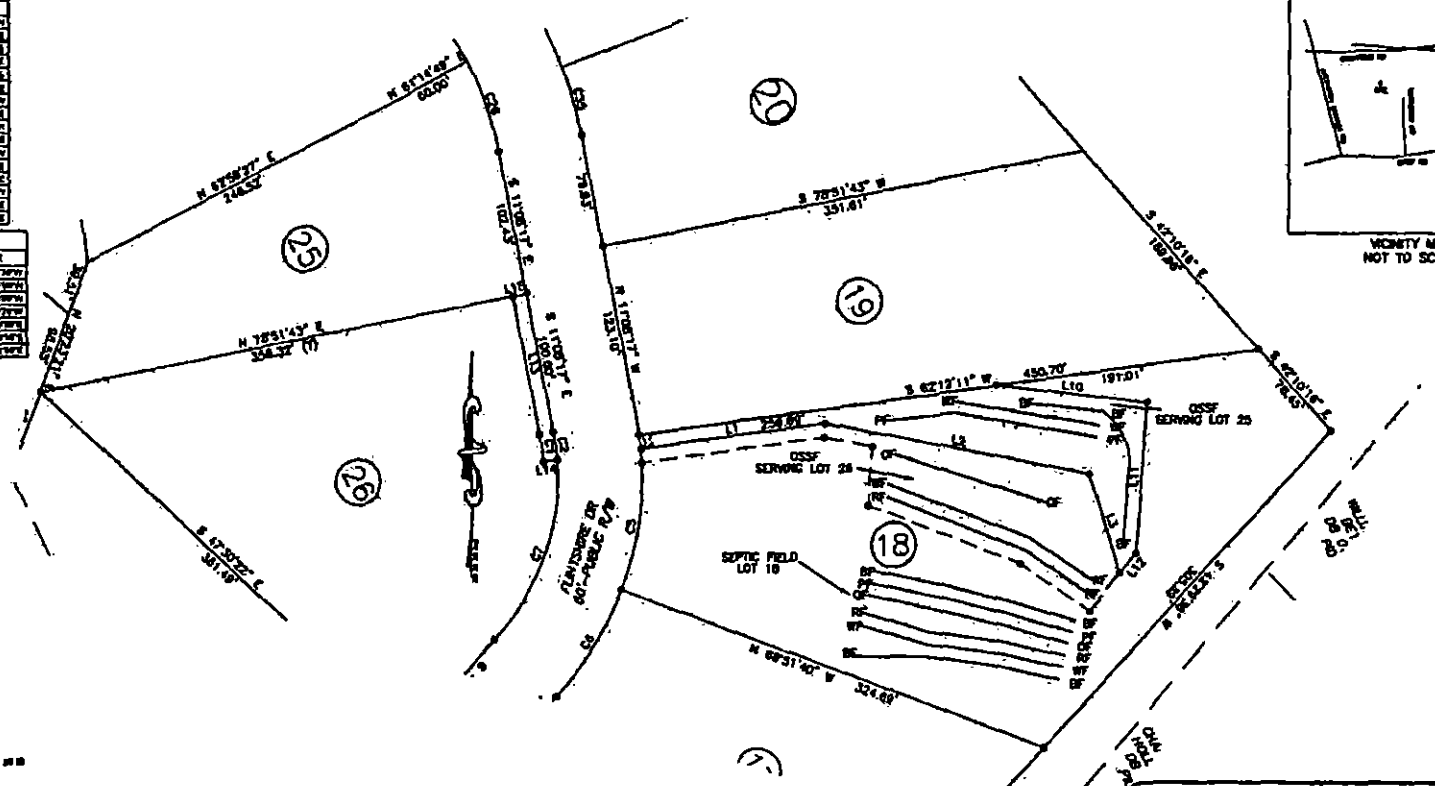
EXHIBIT B

LINE TABLE		
LINE	LENGTH	BEARING
L1	135.56	S62°12'11"W
L2	169.61	S78°51'43"W
L3	73.26	S19°12'11"E
L4	34.14	N26°48'29"E
L5	99.43	S71°39'26"E
L6	138.11	S68°21'38"E
L7	61.89	S62°12'11"W
L8	31.83	S78°51'43"W
L9	135.95	S62°12'11"W
L10	169.39	S62°12'11"W
L11	197.98	S68°42'57"W
L12	18.14	N26°48'29"E
L13	109.95	S11°08'11"E
L14	30.00	S62°12'11"W
L15	30.00	N78°51'43"E
L16	27.00	N62°12'11"E

CURVE TABLE				
CURVE	LENGTH	RADIUS	CH	CH DIR
C1	78.33	468.00	78.24	N67°47'39"W
C2	78.91	775.00	78.91	N67°08'09"W
C3	66.00	330.00	65.89	N68°32'09"W
C4	98.02	1,245.00	98.00	N26°12'11"E
C5	72.11	330.00	71.96	N26°26'38"E
C6	35.14	330.00	35.12	N31°16'43"E
C7	139.72	170.00	135.86	N11°09'43"E



VICINITY MAP
NOT TO SCALE



AREA IN PIPE SERVING LOT 25 AND LOCATED IN LOT 26 IS 1,302 SQ FT

AREA IS OSSF SERVING LOT 25 AND LOCATED IN LOT 18 IS 12,351 SQ FT

LEGEND

- SEPTIC FORCEMAIN EASEMENT SERVING LOT 31
- SEPTIC FORCEMAIN EASEMENT SERVING LOT 43
- BF - BLUE SEPTIC FLAGGING
- PF - PINK SEPTIC FLAGGING
- RF - RED SEPTIC FLAGGING
- WF - WHITE SEPTIC FLAGGING
- YF - YELLOW SEPTIC FLAGGING
- OF - ORANGE SEPTIC FLAGGING
- OSSF - OFF-SITE SEPTIC FIELD
- PIPE - PRIVATE SEPTIC FORCEMAIN EASEMENT
- COS - COMMON OPEN SPACE

100 0 100

I, J MARK FISHER, CERTIFY THAT THIS PLAT WAS PREPARED UNDER MY SUPERVISION AND THAT THIS PLAT WAS PREPARED FOR THE PURPOSE OF ACQUISITION OF EASEMENTS ONLY, AND IS NOT INTENDED TO BE A BOUNDARY SURVEY OF THE PROPERTY SHOWN.

DATED 4/29/14

J. MARK FISHER L-4398

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR L-4398 J. MARK FISHER

Summit Land Services

P.O. BOX 7442
CHARLOTTE, NC 28241
OFFICE 704.504.1717
FAX 704.504.1125
WWW.SUMMIT-COMPANIES.COM
FIRM #C-3329

2920 JOB NO.	1"= 100' SCALE
RBT PREPARED BY	01/30/13 DATE

Project Name
SHERWOOD FOREST
SEPTIC
EXHIBIT FOR LOT 25
MB 50 PG 626

Property Owner
BAC LAND HOLDINGS, LLC

Address
2649 Breckenridge Centre Drive
Monroe, North Carolina 28110
Parcel
#13927435

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

Sheet: 1 of 2
Property ID: 13927635
Lot #: 25
File #: 8553
AppID: 5737

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: True Homes
Applicant: True Homes
Address: 2649 Brekonridge Centre Dr. Monroe, NC 28110
Date Evaluated: 10/3/2012
Proposed Facility: Residence
Design Flow (.1949) 480 GPD
Property Size: 0.937
Location of Site: 10925 Flintshire Road Charlotte, NC 28227
Property Recorded:
Water Supply: [ ] Public [ ] Individual [X] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] 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	Profile Class & LTAR
Pit 1	LS	0-15	wfsbk CL	ss sp fr sexp	>45	15	US	PS	US
	15%	15-25	sls ma L	ss sp Vfi sexp					
		25-45	Cr	Cr					
Pit 2	LS	0-21	wfsbk CL	ss sp fi sexp	>48	48	NA	PS	PS IV
	15%	21-48	wfabk C	ss sp fi sexp					0.2
Pit 3	LS	0-3	wfg L	ss sp fr sexp	2.5 YR	47	NA	PS	US
	12%	3-22	wfsbk CL	ss sp fr sexp	7/1				
		22-34	wfabk CL	s p fi	@23"				Drip .1
		34-47	sls ma C	vs vp fi exp					
Pt 4	LS	0-8	wfsbk CL	ss sp fr sexp	2.5 YR 7/1	31	US	PS	US
	13%	8-18	mmabk C	s p fi sexp	@25"		Very		
		18-31	wmabk C	s vp fi exp			Firm		Drip .1
		31-47	sls ma L	ss sp Vfi sexp					
Pit 5	LS	0-9	wfg L	ss sp fr sexp	>45	24	NA	PS	PS IV
	6%	9-15	mmasbk C	ss sp fi sexp					0.225
		14-24	wfsbk CL	s p fi sexp					
		24-45	Cr	Cr					

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR	US	US

Other Factors (.1946):
Soil Evaluation By: Eric Bailey LSS
Others Present: Jacob Presley LSS
Site Classification (.1948):
Site Evaluation By:
Others Present:

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		M-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		CL-Clay Loam		
FP-Flood Plain		SCL-Sandy Clay Loam		
D-Drainage Way		SiL- (Silt Loam)		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SiC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	NEXP-(Non-expansive)
FR-Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FI-Firm	S-Sticky	EXP-Expansive
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations

