Supervisor/Administrative Professional Checklist

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

New Septic Fees Paid:

IP ($250.00) 2/3/17 Initials/Date

CA ($200.00) 5/7/2020 Initials/Date

OP ($200.00) 5/7/2020 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

Please generate the CA

Floor plans need to be submitted and reviewed before CA can be issued. ☒ Reviewed ☒ 5/7/20 SM

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. ☒ 5/7 Signature received. ☒ 5/7

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

Certified operator contract is on file. ☐ _____

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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30011214** GWS File #: **9676B** Tax Parcel #: **139-129-28**

- 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. 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):** 5/5/2025

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

Structure Type: HOUSE Size (ft^2): 3345 # Bedrooms: 4 Max. Occup.: 8

Building Foundation: Basement With Plumbing Water Supply: Private Well

II. Initial System Type: PPBPS (pressurized) **System Classification:** IVa

Initial 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):	36	Depth of Media (in):	22	Distribution Device:	Manifold (LPP Distri		

III. Repair System Type: N/A **System Classification:**

Repair System Specifications:

Design Flow (gpd):	0	LTAR (gpd/ft^2):	0	Septic Tank Size (gal):	0	Pump Tank Size (gal):	0
Trench Width (ft):	0	Trench Spacing (ft):	0	Absorption Area (ft^2):	0	Total Trench Length (ft):	0
Maximum Trench Depth (in):	0	Depth of Media (in):	0	Distribution Device:	N/A		

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: Heather Ray Owner/Legal Agent: Michael Llora
Print Name

Signature: Signature:

Date Issued: 5/5/2020

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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30011214** GWS File #: **9676B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 3 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 septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- All components of the septic system must be located at least 100 ft (50 ft. minimum) from all private wells.
- The septic system shall be located at least 25 feet from any foundation drain
- This permit is issued pursuant to Section 11.(c) of SL 2018-114 using the signed and sealed LSS Evaluation attached here
- Drainlines must maintain a minimum of 15' from all 2' cuts. Remove bricks and pack soil in below lowest line to ensure 15' set back. Proposed well location will be very difficult to drill well. Ensure drive way does not encroach on drain lines

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: Heather Ray

Signature:

Date Issued: 5/5/2020

Owner/Legal Agent: Michael Llava

Print Name

Signature:

Page 2 of 2

FEE: 200.00
DATE: 5/8/2020

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

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9676B

PERMIT NUMBER: 30011214

PARCEL NUMBER: 13912928

JOB LOCATION INFORMATION

ADDRESS: 15200 AUGUST LN

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

ISSUED TO: JERONIMO VEGA ESPIRELLA

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 5/7/2020

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30011214, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

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

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

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

Authorized Agent Signature Heath Davis

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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

File #: 9676B Permit #: 30011214 Tax Parcel #: 139-129-29

Property Owner: Jeronimo Vega Espriella

Job Location Address: 15200 August Lane

City: Charlotte State: NC Zip Code: 28227

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: IV a

*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: IVa (saprolite System) PPBPS

DENR Authorized Agent: Braedon Shelton Date: 4/26/22

Signature: Braedon Shelton

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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

File #: 9676B Permit #: 30011214 Tax Parcel #: 139-129-28

Property Owner: Jeronimo Vega Espriella

Job Location Address: 15200 August Lane

City: Charlotte State: NC Zip Code: 28227

Operation Permit Issuance Date: _____ Contractor Name: Lago Vista

Permitted Design Flow: 480 GPD Liquid Capacity of Dosing Tank: 1000 gallons

Liquid Capacity of Septic Tank: 1000 gallons Tank Manufacture SHOAF Effluent Pump Model: Liberty (LE-102h2-3)

Drainfield Installation ☐ N/A

Trench Depth: 33 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 270 feet (25', 30', 55', 50', 60', 50')

# of Lines: 6 @ → feet

Depth of Media: NA inches (Type) PPBPS (Horizontal) 50% Reduction

Depth of Cover: ≥6 inches

Distribution Device: Pressure Manifold (LPP)

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: ≥15 feet

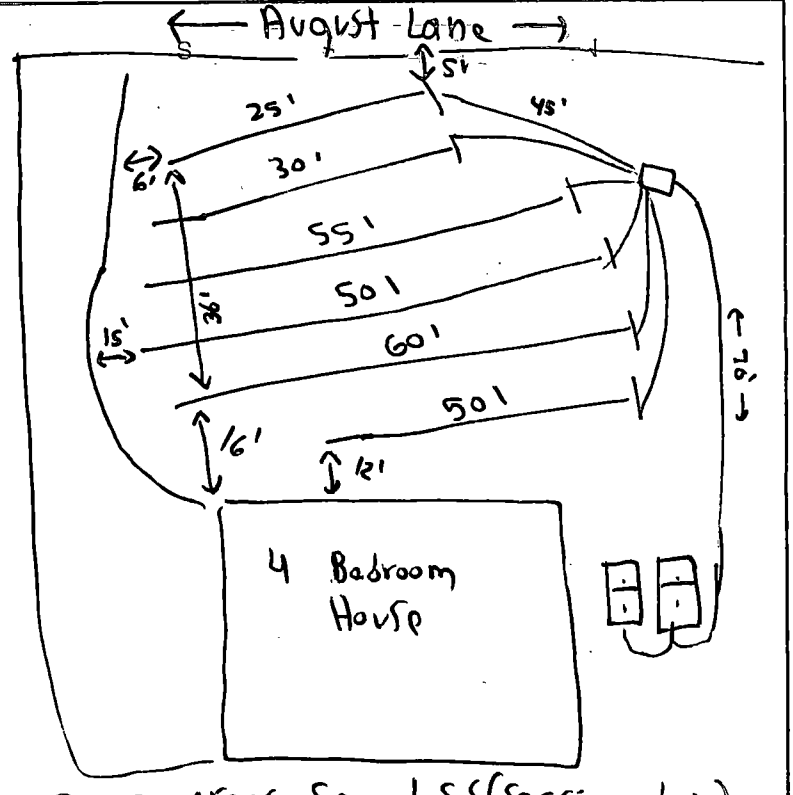
Distance from Water Supply Source: ≥100 feet

Inspection Dates

Tank(s) Inspected: 4/26/22

Excavation Inspected: 4/26/22

Pump & Controls Inspected: 4/26/22



* for specifics see LSS (Session Law) Design

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: PPBPS H, SoproLite System 270' 50% Reduction System, LPP Pressure Manifold distribution *Repair Area exempt*

DENR Authorized Agent: Braedon Shelton Signature: Braedon Shelton

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

Septic System Pre-Construction Meeting Checklist

File # 9676B App# 30011214 Tax Parcel# 139-129-28

Property Owner: Jeronimo Vega Espriella

Job Location Address: 15200 August Lane

City: Charlotte State: NC Zip Code: 28227

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

   ☒ YES ☐ NO

   Comments:

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

   ☐ YES ☐ NO

   Comments: * Repair exempt *

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

   ☐ YES ☐ NO

   Comments: System will be Slightly altered, to stay 15' off ≥2' Cut. Soil Scientist has approved changes to Layout.

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

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

Braedon Shelton
Authorized Agent

4/22/22
Date

Lago Vista
Others Present

9676 B

#11214

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: 13912928
STREET ADDRESS: 15200 August Lane
CITY: Charlotte
STATE: NC **ZIP:** 28227
SUBDIVISION NAME: Arlington Forest - Block B
LOT #: 131 **LOT SIZE (acres):** 0.47
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: 3,345
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 4
FOUNDATION TYPE: *Slab with half basement

○ 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?** 6/20/78 ☐ UNKNOWN

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

12. **PROPERTY OWNER:**

NAME: Jeronimo Vega Espriella
ADDRESS: 6800 BODGIT LN
CITY: Charlotte
STATE: NC ZIP: 28215
WORK PHONE: _____
MOBILE PHONE: (704) 222-6102
FAX: _____
E-MAIL: 6800 BODGIT LN

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

NAME: Michael Llora
ADDRESS: 4614 Wilgrove Mint Hill Rd, Suite N
CITY: Mint Hill
STATE: NC ZIP: 28227
WORK PHONE: 704.975.5318
MOBILE PHONE: _____
FAX: _____
E-MAIL: mjlconstruction@gmail.com

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.

MJL (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.

MJL (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.

Michael Llora
Property Owner's or Owner's Legal Representative Signature

3/8/20
Date

OFFICE USE ONLY

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

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

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

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

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

File #: _____

PROPOSED PLOT PLAN

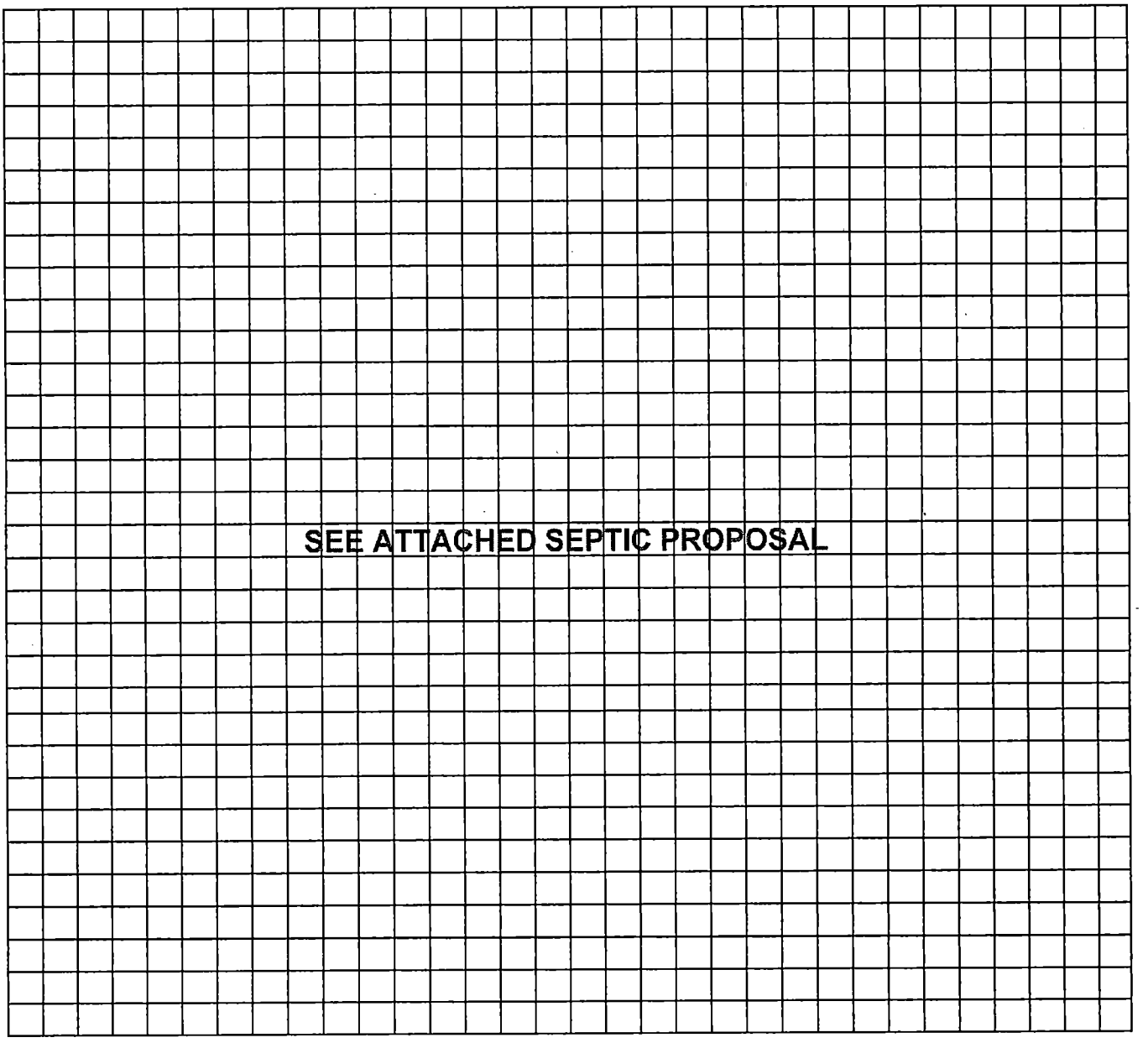
A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s),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

Street Address: 15019 August Lane

Tax Parcel #: 13912813

Subdivision Name: Arlington Forest, Block B

Lot #: 86



Michael Llora

Property Owner's or Owner's Legal Representative Signature

3/8/20

Date

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

Revised on: 4/20/17

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	02/03/17	**Amount:**	250.00
Receipt #:	103651	**Tendered:**	250.00
Check / Auth #:	CHARGE	**Returned:**	0.00
Received By:	ANDRAEO		

Account Information

Account #: X45083
Contractor: MJL CONTRACTING & WOODWORKI
Attn:
Address: 7118 WILLOW BEND LANE
Address:
City/State/Zip: MINT HILL, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 15200 AUGUST LANE		1	250.00	250.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
250.00	1,550.16				

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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30011214** GWS File #: **9676B** Tax Parcel #: **139-129-28**

- 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. 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):** 5/5/2025

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

Structure Type: HOUSE Size (ft^2): 3345 # Bedrooms: 4 Max. Occup.: 8

Building Foundation: Basement With Plumbing Water Supply: Private Well

II. Initial System Type: PPBPS (pressurized) **System Classification:** IVa

Initial 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):	36	Depth of Media (in):	22	Distribution Device:	Manifold (LPP Distri		

III. Repair System Type: N/A **System Classification:**

Repair System Specifications:

Design Flow (gpd):	0	LTAR (gpd/ft^2):	0	Septic Tank Size (gal):	0	Pump Tank Size (gal):	0
Trench Width (ft):	0	Trench Spacing (ft):	0	Absorption Area (ft^2):	0	Total Trench Length (ft):	0
Maximum Trench Depth (in):	0	Depth of Media (in):	0	Distribution Device:	N/A		

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: Heather Ray Owner/Legal Agent: _____
Print Name

Signature: _____ Signature: _____

Date Issued: 5/5/2020

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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30011214** GWS File #: **9676B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 3 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 septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- The septic system shall be located at least 25 feet from any foundation drain.
- This permit is issued pursuant to Section 11.(c) of SL 2018-114 using the signed and sealed LSS Evaluation attached here.
- Drainlines must maintain a minimum of 15' from all 2' cuts. Remove bricks and pack soil in below lowest line to ensure 15' set back. Proposed well location will be very difficult to drill well. Ensure drive way does not encroach on drain lines

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: Heather Ray

Signature: _____

Date Issued: 5/5/2020

Owner/Legal Agent: _____
Print Name

Signature: _____

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	05/07/20	**Amount:**	200.00
Receipt #:	122291	**Tendered:**	0.00
Check / Auth #:	VISA 086090	**Returned:**	0.00
Received By:	PLACILJ		

Account Information

Account #:	200000
Contractor:	MIKE LLORA
Attn:	
Address:	
Address:	
City/State/Zip:	,

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 15200 August Ln		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: 05/07/20
Receipt #: 122292
Check / Auth #: VISA 086090
Received By: PLACILJ

Amount: 200.00
Tendered: 0.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: MIKE LLORA
Attn:
Address:
Address:
City/State/Zip: ,

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 15200 August Ln		1	200.00	200.00

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

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

Payment Receipt

Mecklenburg County

Environmental Health
3205 Freedom Drive, Suite 8000
Charlotte, NC 28208
Phone: 980-314-1651

Enter Account # or Customer Name Here: MIKE LLORA

Bill To:

MIKE LLORA

Single Payment

Transaction Date:	05/07/2020 6:49 AM Pacific Time
Pay Method:	VISA **********2698
Approval #:	086090
Trace Number:	b7fed4ea-ac74-44fe-9f78-ef927aede8a0
Amount:	$400.00

Payment Amount:	$400.00
Total:	**$400.00**

Thank you for your payment.

Permit # 8778

File # 9676B

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: 139-129-28
STREET ADDRESS: 15200 August Lane
CITY: Mint Hill
STATE: NC ZIP: 28227
SUBDIVISION NAME: Arlington Forest
LOT #: 131 LOT SIZE (acres): 0.46
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: 1400
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 2
FOUNDATION TYPE:

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

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

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

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

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

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

☐ N/A [2] ANY TYPE [1] CONVENTIONAL [3] ACCEPTED [4] INNOVATIVE [5] 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? 2/28/90 last known date ☐ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 2/8/17 ☐ N/A

12. PROPERTY OWNER:

NAME: Elva Joann Jones
ADDRESS: 527 Hawthorne Ln Apt. 5
CITY: Charlotte
STATE: NC ZIP: 28204
WORK PHONE: _____
MOBILE PHONE: _____ N/A
FAX: _____
E-MAIL: _____

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

NAME: Michael Hora
ADDRESS: 7118 Wilbur Bend Ln
CITY: Mint Hill
STATE: NC ZIP: 28227
WORK PHONE: _____
MOBILE PHONE: 704-975-5318
FAX: _____
E-MAIL: mjlconstruction@gmail.com

X45083

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.

MM (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.

MM (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

1-26-17
Date

OFFICE USE ONLY

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

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

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

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 241 CHARLOTTE, NC 28202 OFFICE: 704.336.5103 FAX: 704.336.6894

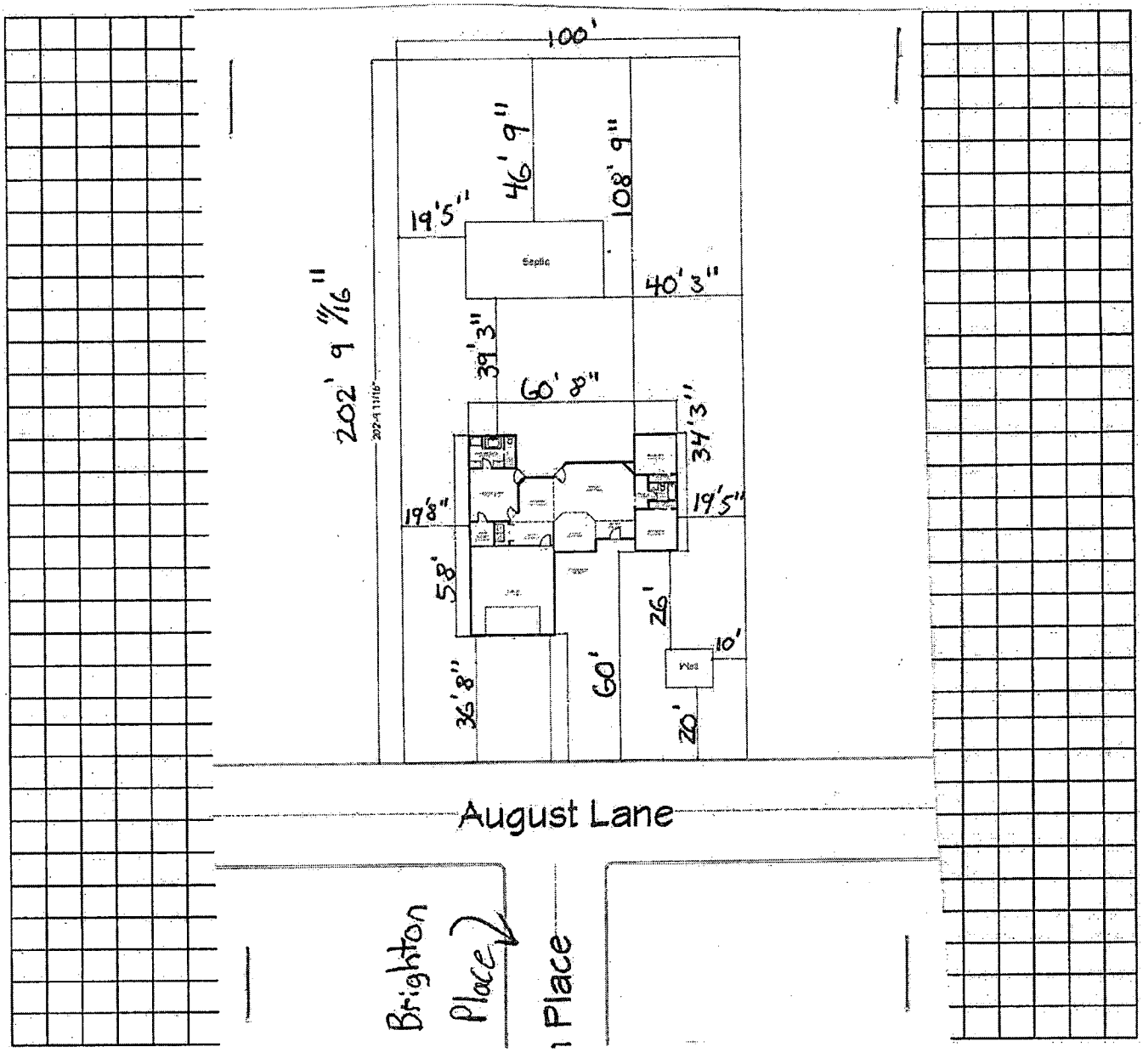
File #: _____

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: 15200 August Ln Tax Parcel #: 139-129-28

Subdivision Name: Arlington Forest Lot #: 131



Property Owner's or Owner's Legal Representative Signature

1-26-17
Date

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

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

Sheet: 1 of 2
Property ID: 139-129-28
Lot #: 131
File #: 9676B
AppID: 11214

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: Jeronimo Vega Esperalla
Applicant: Michael Llora
Address: 6800 Bodgit Ln, Charlotte, NC 28215
Date Evaluated: 2/14/2017
Proposed Facility: 4 Bedroom House
Design Flow (.1949): 480 GPD
Property Size: 0.466 ac
Location of Site: 15200 August Ln, Charlotte, NC 28227
Property Recorded: 6/20/1978
Water Supply: [ ] Public [X] Individual [X] Well [ ] Spring [ ] Municipal
Evaluation Method: [ ] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	LS 16%	0 - 3	gr SL	SS SP FR SEXP	>30"	26	NA	NA		NEED PITS	NA
		3 - 20	sbk C	S P FR SEXP							
		20 - 26	sbk CL	SS SP FR SEXP							
		26 - 30	SAPROLITE								

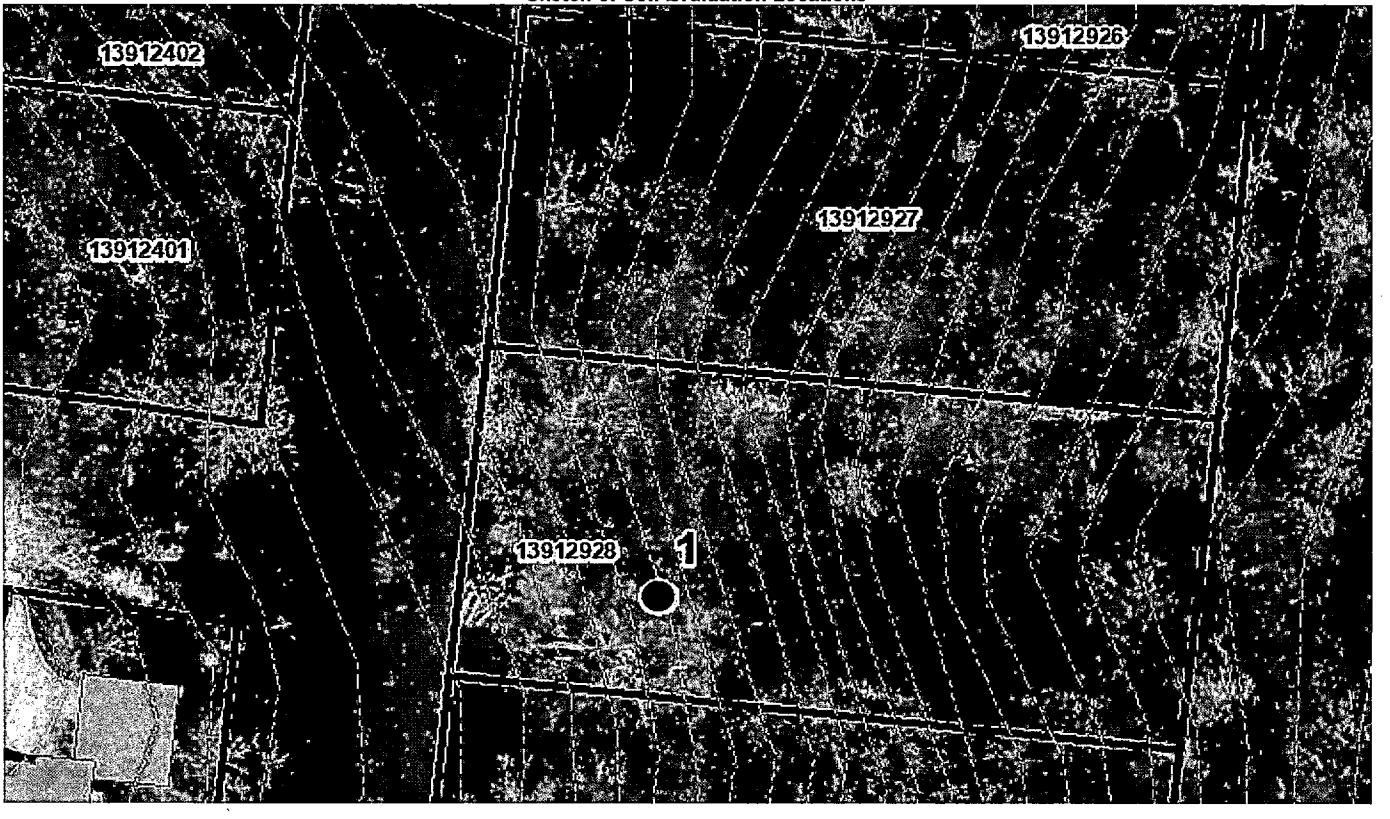
File #: 9676B
AppID: 11214

COMMENTS: NEED PITS DUE TO SAPROLITE

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

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

Sketch of Soil Evaluation Locations



SAPROLITE INVESTIGATION

15200 August Lane
Mint Hill, North Carolina

Prepared for:

Michael Llora
M&L Construction Group, LLC
4614 Wilgrove Mint Hill Rd
Suite N
Mint Hill, NC 28227

Prepared by:

Thompson Environmental Consulting
WATER • WASTEWATER • WETLANDS

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

June 21, 2017

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

INTRODUCTION AND SITE DESCRIPTION

Thompson Environmental Consulting, Inc. (TEC) has performed a deep pit saprolite investigation for septic system suitability on a 0.466-acre lot located at 15200 August Lane, Mint Hill, North Carolina (Mecklenburg County Tax Parcel Number: 139-129-28). The property was evaluated in accordance with North Carolina statutes for waste disposal ("Laws and Rules for Sewage Treatment and Disposal Systems", Section .1956).

The parcel is currently undeveloped and has been recently hand-cleared.

INVESTIGATION METHODOLOGY

The site was evaluated on June 13, 2017 utilizing excavated pits within the study area (see Figure 1). Observations of landscape (slope, drainage patterns, past use, etc.) as well as soil properties (depth, texture, structure, seasonal wetness, restrictive horizons, etc.) to a depth > 60 inches were recorded. Soil color was determined with a Munsell Soil Color Chart.

FINDINGS

The most limiting soil property with respect to on-site suitability was soil depth to saprolite. Surface textures were sandy loam and exhibited moderate medium granular structure. Subsurface textures were clay and clay loam with moderate medium subangular blocky structure. The soils observed would be classified as "Unsuitable" for on-site wastewater treatment and disposal systems based upon the "Laws and Rules for Sewage Treatment and Disposal Systems" under Section .1943 related to "Soil Depth".

The saprolite was recorded as sandy loam and loam textures in the field with samples collected from Pits 1 and 3. Samples were taken from the 50 to 57-inch depth and sent to Waypoint Analytical for soil particle analysis, the results of which are attached to this report. Based upon laboratory textural analyses of silt loam, the saprolite texture is "Suitable" and may be considered for the installation of a subsurface saprolite system.

CONCLUSIONS

Based upon our findings, saprolite observed on this site meets the intent and requirements of Section .1956 and could be used for subsurface wastewater treatment and disposal.

The findings presented herein represent TEC's professional opinion based upon our soil and site evaluation and knowledge of the current laws and regulations governing on-site wastewater systems in North Carolina (Section .1900 of the North Carolina Administrative Code - NCAC).

This report does not guarantee the issuance of an Improvement Permit (IP) and Construction Authorization (CA) for a subsurface wastewater treatment and disposal system. An IP and CA can only be issued for this property by the Mecklenburg County Groundwater and Wastewater Services. This report has been prepared to help assist with the permitting process for the property.

Groundwater & Wastewater Services: Septic Project File & D

GWS File #:	9676B
WASPS App #:	11214
Primary ES assigned to project:	Heather Ray
Secondary ES assigned to project:	
Project Type:	New System
Site Evaluation Information: .1939(a)(1) - Topography and Landscape Position Recorded?	Yes
Site Evaluation Information: .1940(a-g) - Slope % Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Texture Class Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Structure Type Recorded?	Yes
Site Evaluation Information: .1939 (a)(2) - Consistence Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Mineralogy Recorded?	Yes
Site Evaluation Information: .1939(a)(3) - Soil Wetness Condition Recorded?	Yes
Site Evaluation Information: .1939(a)(4) - Soil Depth to Rock or Parent Material Recorded when Encountered?	Yes
Site Evaluation Information: .1939(a)(5) - Depth to Restrictive Horizons Recorded when Encountered?	Yes
Site Evaluation Information: .1939(a)(6) - Sufficient Available Space Recorded?	Yes
Site Evaluation Information: .1937(m) - Are the Profile Locations Shown?	Yes
Site Evaluation Information: .1939(a) - Are the S/PS Profiles in system & in repair area?	Yes
Site Evaluation Information: .1939(d), .1955, .1956, .1957 - LTAR	Yes
Improvement Permit/Construction Authorization: .1937(g), 130A-336(a) - Proposed System Type stated - Initial	Yes
Improvement Permit/Construction Authorization: .1945(b) - Proposed System Type stated - Repair	N/A
Improvement Permit/Construction Authorization: 130A-336(a)(3) - System location identifiable by setbacks - Initial	Yes
Improvement Permit/Construction Authorization: .1937(g), .1945(b) - System components shown - Initial	Yes
Information Permit/Construction Authorization: .1945(b) - Repair area shown	N/A
Improvement Permit/Construction Authorization: .1937(f)(g) - Does System design match facility, flow & WW characteristics?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is System design consistent with soil/site conditions?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is the System located in the approved area?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Number of Bedrooms, employees, seats, etc. indicated?	Yes
Improvement Permit/Construction Authorization: .1937 (g) - Trench depth correct?	Yes
Improvement Permit/Construction Authorization: .1937(g) - Trench width correct?	Yes
Improvement Permit/Construction Authorization: .19379(g) - Trench length correct?	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(1) - Proposed/existing well shown?	Yes

Improvement Permit/Construction Authorization: 130A-336(a)(1) - Property line lengths shown?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Facility/appurtenance setbacks shown from fixed points?	Yes
Corrections/modifications needed?	No
Comments:	Consultant design. Repair area not required.
IA issued date:	
OP Issued date:	
Review performed by:	Jeremy Michelone
Date performed:	5/6/2020

Created at 5/6/2020 12:13 PM by Michelone, Jeremy
Last modified at 5/6/2020 12:13 PM by Michelone, Jeremy

Close

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

Sheet 1 of 1
PROPERTY ID #: 139-129-28
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**

OWNER: Estrella and Cruz
ADDRESS: 6800 Godsit Lane, Charlotte, NC 28215
PROPOSED FACILITY: Res PROPOSED DESIGN FLOW (.1949): 450 GPD
LOCATION OF SITE: 15200 August Lane, Charlotte, NC 28277
DATE EVALUATED: 6-13-17
PROPERTY SIZE: 0.466ac
PROPERTY RECORDED: Pb2 8-10-
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS 15%	0-3	GR/SL	FR/NS/NP/NCEP		62"	PS III	—	PS 0.3
		3-20	SBK/C	FR/S/P/SCEP					
		20-43	SBK/CL	FR/SS/SP/SCEP	—				
		43-62	DM/SIL	FR/NS/NP/NCEP	—				
2	LS 15%	0-4	GR/SL	FR/NS/NP/NCEP		66"	PS III	—	PS 0.3
		4-14	SBK/C	FR/S/P/SCEP					
		14-68	DM/SIL	FR/NS/NP/NCEP	—				
3	LS 15%	0-2	GR/SL	FR/NS/NP/NCEP		65"	PS III	—	PS 0.3
		2-16	SBK/CL	FR/SS/SP/SCEP					
		16-65	DM/SIL	FR/NS/NP/NCEP	—				
4	LS 15%	0-3	GR/SL	FR/NS/NP/NCEP		66"	PS III	—	PS 0.3
		3-20	SBK/C	FR/S/P/SCEP					
		20-26	SBK/CL	FR/SS/SP/SCEP	—				
		26-66	DM/SIL	FR/NS/NP/NCEP	—				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	Exempt
System Type(s)	LPP DDBPS	↓
Site LTAR	0.3	↓

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): Provisional
EVALUATED BY: John Roberts LSS
OTHER(S) PRESENT: Larry Thompson LSS

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

COMMENTS: The LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11 (c)

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL 1955 LTAR*	LPP 1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
D (Drainage Way)						CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

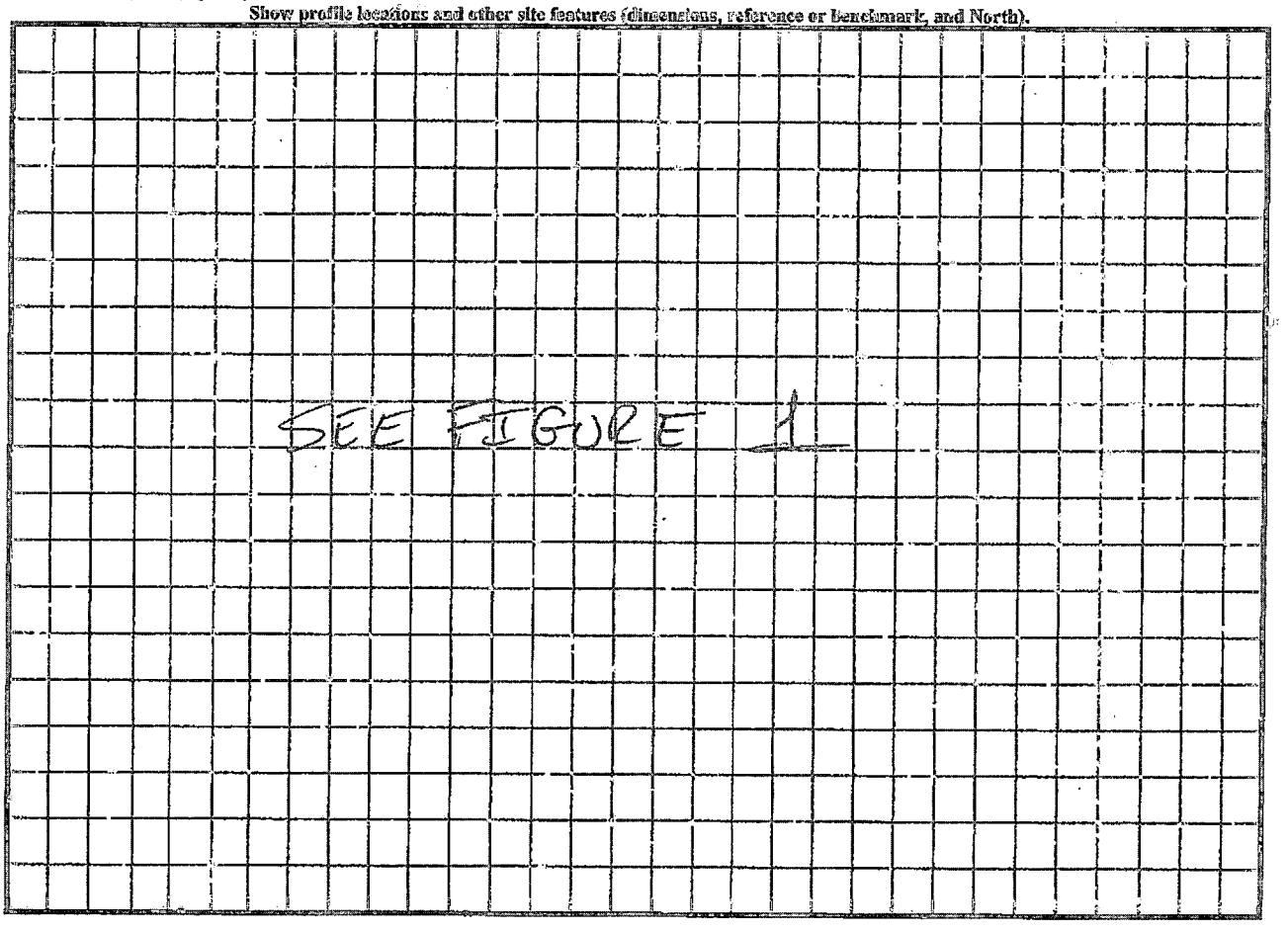
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



Report Number
17-167-0256 **Page:** 1 of 2

Account Number
21841

2790 Whitten Road, Memphis, TN 38133
Main 901.213.2400 ⁰ Fax 901.213.2440
www.waypointanalytical.com

Send To: Three Oaks Engineering, Inc.
Ms. Sherry Hager
324 Blackwell St.
Suite 1200
Durham , NC 27701

Project : Analytical Testing

Purchase Order :
Report Date : 06/20/2017
Date Received : 06/16/2017

REPORT OF ANALYSIS

Date Sampled :

Lab Number: 98215
Sample Id : LTALP1

Analysis	Result	Quantitation Limit	Method	Date and Time Test Started	Analyst
%Clay , %	14.0	0.1	Texture	06/20/2017 10:59	JVP
%Sand , %	34.0		Texture	06/20/2017 10:59	JVP
%Silt , %	52.0	0.1	Texture	06/20/2017 10:59	JVP
Soil Classification	Silt Loam		Texture	06/20/2017 10:59	JVP

Method Reference:
Methods of Soil Analysis, Part 1 - Chemical Methods. 1986.
Comments:

Jimmy R. Ferguson

Report Number
17-167-0256 **Page:** 2 of 2

Account Number
21841

Send To: Three Oaks Engineering, Inc.
Ms. Sherry Hager
324 Blackwell St.
Suite 1200
Durham , NC 27701

Project : Analytical Testing

Waypoint ANALYTICAL

2790 Whitten Road, Memphis, TN 38133
Main 901.213.2400 ° Fax 901.213.2440
www.waypointanalytical.com

Purchase Order :
Report Date : 06/20/2017
Date Received : 06/16/2017

REPORT OF ANALYSIS

Date Sampled :

Lab Number: 98216
Sample Id : LTALP3

Analysis	Result	Quantitation Limit	Method	Date and Time Test Started	Analyst
%Clay , %	10.0	0.1	Texture	06/20/2017 10:59	JVP
%Sand , %	26.0		Texture	06/20/2017 10:59	JVP
%Silt , %	64.0	0.1	Texture	06/20/2017 10:59	JVP
Soil Classification	Silt Loam		Texture	06/20/2017 10:59	JVP

Method Reference:
Methods of Soil Analysis, Part 1 - Chemical Methods. 1986.
Comments:



Jimmy R. Ferguson

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

Arlington Forest – Block B, Lot 131
15200 August Lane
Charlotte, North Carolina 28227

Mecklenburg County PIN: 13912928
February 25, 2020

Prepared for:

Michael Llora
M&L Construction Group, LLC
4614 Wilgrove Mint Hill Rd., Suite N
Mint Hill, NC 28227
704-975-5318



Prepared by:

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



Details

Michael Llora has contracted with Thompson Environmental Consulting, Inc. (TEC) to prepare a septic proposal for a 4-bedroom single family residence to be located at 15200 August Lane, Charlotte, North Carolina (Arlington Forest – Block B, Lot 131).

Based upon an investigation performed by TEC on Lot 131, it was determined that a sufficient amount of "Suitable" Group III saprolite is available for the installation of a **Pressure-Dosed Prefabricated Permeable Block Panel System** (LPP PPBPS) for a 4-bedroom residence at a 0.3 Long Term Acceptance Rate (LTAR). The proposed repair system will be a LPP PPBPS as well. The residence will be served by a private well. The plat for Arlington Forest was recorded on August 10, 1962, making this lot exempt from current repair requirements.

The enclosed Licensed Soil Scientist Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11. (c). Mr. Llora would like to request that the Mecklenburg County Groundwater and Wastewater Services (MCGWS) issue the appropriate permits for a subsurface wastewater treatment and disposal system based upon the following proposal.

Location

From Charlotte, take NC 24-27 E. approximately 9.1 miles and turn right onto Cabarrus Road. Travel 0.9 miles and turn left onto S. Hampton Drive. Turn right onto August Lane and Lot 131 will be located on the right on an unmaintained section of roadway.

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, April 1, 2017.

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

Design, Installation and Maintenance of the T & J Panel Wastewater Treatment System; Sixth Edition, published by T & J Panel.

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287
SC Professional Soil Classifier No. 111
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

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1,000 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 1,000 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 84 feet).
4. The lateral distribution lines shall be 1¼ inch Schedule 40 PVC. Holes in the laterals should be drilled on site and at the 12 o'clock position (one hole per panel). Lateral hole size is 5/32 of an inch.
5. There shall be a threaded PVC union above each pump to facilitate easy removal of the pumps for maintenance or replacement.
6. The end of each lateral is to be provided with a "turn up", contained within a turf/gate valve box, that provides above ground access for periodic clean out and pressure head adjustment.

D. Valve Box

1. The control valves (gate valves) for each lateral distribution line shall be contained within one manifold box/vault of adequate size. The box should be placed upon a gravel base.
2. The supply manifold conveys effluent from the pump to the lateral distribution lines.
3. The supply manifold should be constructed by connecting a series of (4) 2" x 2" x 1 ¼" reducing tees to the 2-inch supply line.

E. Backfill

1. 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).

F. Drainfield Installation

1. The drainfield and the proposed septic tank location have 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 IV 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 four (4) lateral trenches 3 feet wide. Lateral lengths are 50 feet, 70 feet, and (2) at 75 feet long.
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 **36 inches**. Each trench shall be 3 feet wide and 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 1¼ inch Schedule 40 PVC laterals 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. The end of each lateral should be fitted with a short turn up topped by a threaded female coupling with cap. Each turn up must be fitted with a turf/gate valve box with lid fitted flush to finished grade.
12. Once the lateral has been installed and 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 MCGWS.

G. Proper Operation Check

1. After all components of the waste water disposal system have been installed and connected, the system shall be checked for proper operation.
2. With the electrical power turned off, fill the pump tank with water until the liquid rises to a level high enough to activate the high water alarm float. Turn on the electrical power. The alarm, alarm light and pump should activate at this time. Turn off the electrical power once these checks have been performed and prepare to set the head pressure at the valve box.

H. Pressure Head Adjustment

1. The pressure head must be adjusted to match the design specifications. The pressure head is measured by the height of the liquid coming from the turn ups at the end of each lateral when the pump is running (utilizing stand pipes).

2. Prepare a length of pipe (stand pipe), cut to the desired head pressure height and fitted with a threaded adapter that will screw into the turn up couplings at the end of each lateral. Thread the stand pipes into each lateral and then turn the power on to the pump, allowing the water to rise within the stand pipes. Adjust the gate valves within the supply manifold box to achieve the specified head pressure (liquid height in the stand pipes should equal the design head pressure).
3. Once the pressure head has been adjusted, allow the pump to run through the remainder of the cycle. The pump float switch will automatically turn the pump off if it is operating properly. Make sure that the effluent pump is completely submerged in the remaining water, making adjustments to the float switch(es) as needed. This completes the checks for proper operation of the pump, alarm and float switches.
4. At this point, the standpipes may be removed and replaced with the threaded turn up caps.

I. Final Landscaping

1. The drainfield shall be shaped to shed rainwater and be free from low spots.
2. The entire area of the drainfield 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.

J. Utility Conflicts

1. The builder and property owner must take special care in planning for utilities (water, power, gas, telephone, cable lines, etc.). All utilities shall be kept clear 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.
2. Special care should be taken not to remove soil within the proposed drainfield area. It is recommended that the proposed drainfield area be protected by orange barrier fencing throughout project construction.
3. Water lines must be kept at least ten (10) feet from any portion of the septic system.
4. Irrigation systems should not be placed in the drain field area.

Maintenance

K. Operation and Maintenance

The designed system is classified as a Type IVa wastewater treatment and disposal system and will require ongoing maintenance. State regulations require that a system of this type be managed by a person certified (Certified Subsurface System Operator) by the North Carolina Department of Environment and Natural Resources to operate subsurface wastewater systems (Section .1961 Maintenance of Sewage Systems). A "Maintenance Contract" between the system owner and a Certified Operator will be required by MCGWS prior to the issuance of a final system approval or Operation Permit.

1. The minimum inspection/maintenance and reporting frequency for a Type IVa system is twice a year by the Certified Operator. The local health department is required to inspect the system once every three years.
2. The septic and pump tanks shall be pumped out when the solids within the septic tank reach an elevation that is equivalent to 25% of the volume of the tank. In some situations, the tanks may need to be pumped more frequently; for example, if you are using a garbage disposal, it is recommended that the septic and pump tanks be cleaned out annually. Regardless, the Certified Operator will be able to advise when it is necessary to pump out tank solids.
3. Pressure head for laterals should be checked and adjusted semi-annually, flushing with clean water as necessary to remove any accumulated solids.
4. The effluent filters should be inspected semi-annually. When it becomes necessary to clean the effluent filters, the filters should be removed and the accumulated debris washed back into the septic or pump tank – not onto the lawn.
5. All piping and valves should be inspected semi-annually for damage and corrections/repairs made immediately.
6. The pump and float controls/switches should be inspected semi-annually to assure proper operation.
7. The drain field area should be maintained to prevent over growth of vegetation. Any damp areas, leakages or malfunctions should be addressed immediately.
8. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

L. Suggestions to the Homeowner

1. As previously mentioned, a garbage disposal is not recommended. The ground up garbage adds large amounts of solids into a septic tank that tend to degrade at a very slow rate.
2. Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes and solid paper wastes) should never be put into a septic tank.
3. Used motor oil or any oily liquids should not be disposed of in a septic tank.
4. Be aware of the amount of water that you are using in your home. Water saving fixtures and devices can be installed on sinks, toilets and showers to reduce the volume of wastewater that you are sending to your drain field.
5. Run dishwashers and washing machines only when you have a full load.
6. Use liquid detergents. Powdered detergents have binding agents in them that tend to solidify in the wastewater disposal system.
7. Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drain field.
8. Do not use chemical additives in your system. Studies have indicated that they do not increase the biological activity that naturally occurs in the septic system and in some cases certain additives have been found to be detrimental to the life of a system.

Design Specifics

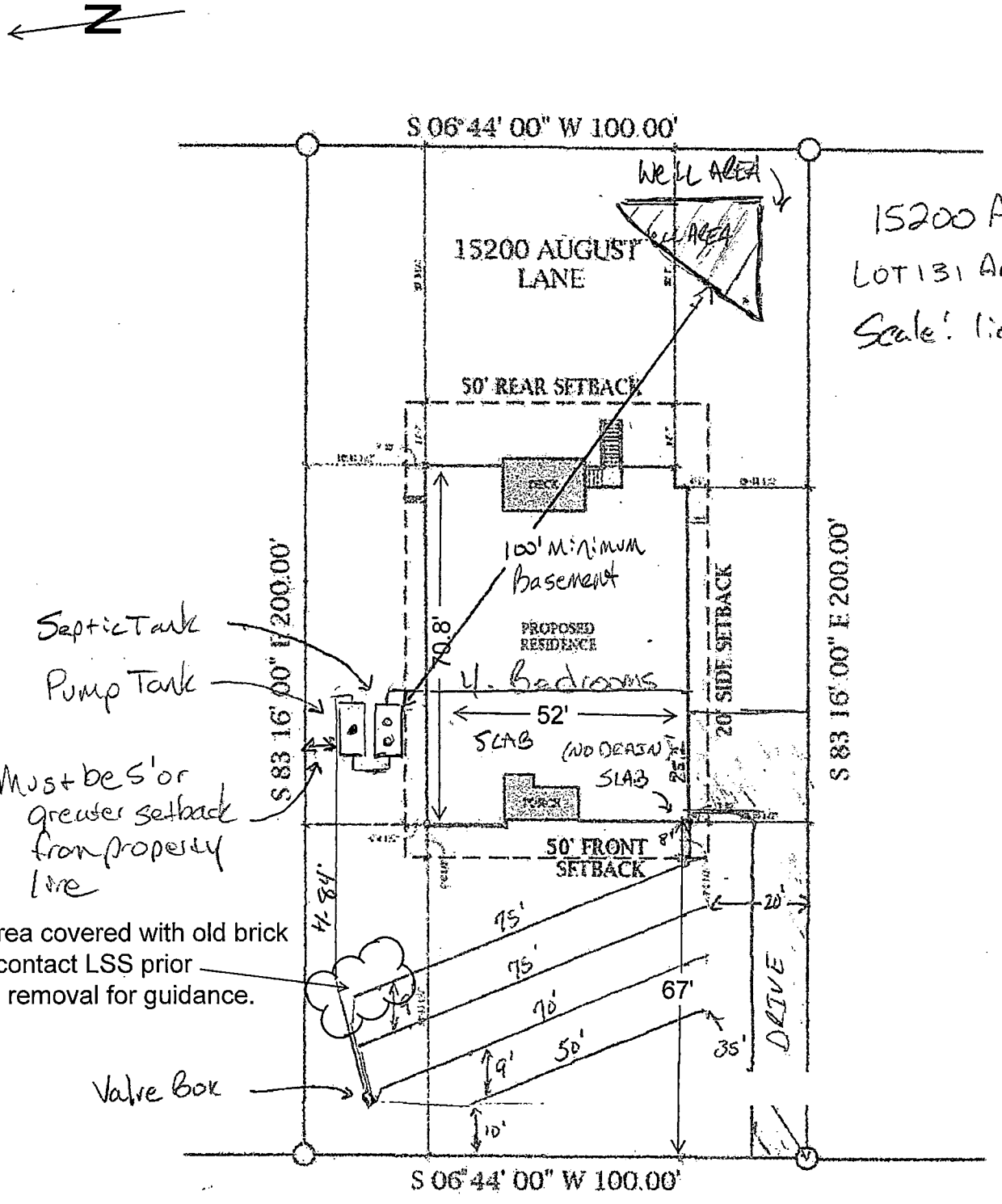
Daily Design Flow:	480 GPD – 4 bedroom house
Septic Tank Size:	1,000 Gallons
Pump Tank Size:	1,000 Gallons
Effluent Loading Rate:	Design = 0.3 GPD per sq. ft. (50 % reduction - PPBPS)
Supply Line Length:	Approximately 84 Feet
Supply Line Diameter:	2 Inches – Sch. 40 PVC
Number and Size of Drainlines:	(4) 3' W x Various Lengths 1 at 50 Feet 1 at 70 Feet 2 at 75 Feet
Trench Width:	36 Inches Wide
Maximum Trench Depth:	36 Inches Deep
Drainline Spacing:	9 Foot on Centers
Total Length of Drainline:	270 feet
Total Number of Panels:	61
Lateral Hole Size:	5/32 inch
Hole Spacing:	1 per panel = 61 total
Dosing Volume:	219.60 gallons per dose
Flow Rate Through System:	25.01 gallons per minute
Total Dynamic Head:	23 feet
Pump Requirements:	25.01 GPM at 23 Feet TDH
Recommended Pump:	StaRite STEP 20 or equiv.
Check Valve Required:	Yes

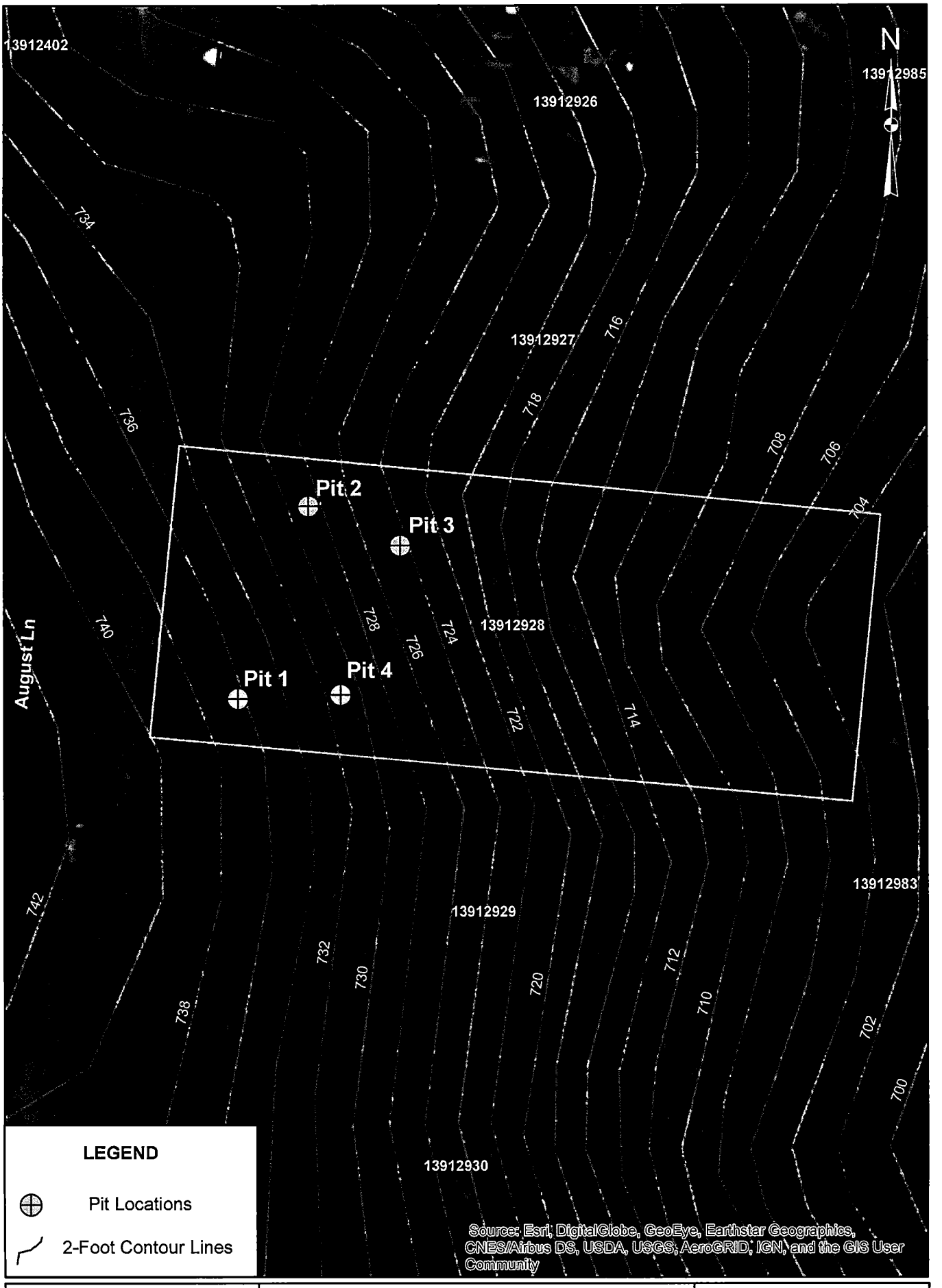
Pump Run Time:	8.78 minutes
Depth of Water Pumped:	Approx. 10.46 inches - check with individual tank manufacturer (1 cu. Ft. of water equals 7.5 gal.)

*Contractor must contact LSS prior to system install to discuss brick debris removal in the area of the lowest 75 foot long drainline.

PPBPS Design Worksheet							File #:			
							Tax #:	139-129-28		
System Requirements							Address:	15200 August Lane		
Design Flow	480	gpd						Mooresville, NC 28117		
LTAR	0.300	gpd/ft.^2					Consultant:	Larry Thompson, LSS		
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	50	11								
Line # 2	70	16								
Line # 3	75	17								
Line # 4	75	17								
Totals	**270**	**61**								
Absorption Area										
Length (ft)	Width (ft)	Area (ft^2)								
270	3	810								
System Pressure Head	2	ft.	Value selected by system designer (must be between 2-5 ft.)							
Orifice Diameter	5/32	in.	Size selected by system designer (1/8 in. minimum)							
Flow Rate per Orifice	0.41	gpm	Determined from orifice flow design table (value dependent on pressure head & orifice diameter)							
Total System Flow Rate	25.01	gpm	Total number of panels required multiplied by the orifice flow rate							
System Dose Volume	219.60	gal.	Total number of panels required multipled by 3.6 gal./panel							
Pump Run Time	8.78	min.	System dose volume divided by the total system flow rate							
Pump Tank Drawdown	10.46	in.								
Comments:										
1. Install system using 3 ft. wide trenches										
2. Install drainlines on 9 ft. centers, level, and on contour.										
3. System design requires effluent pump for distribution.										

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


N
S 06°44' 00" W 100.00'
WELL AREA
15200 AUGUST LANE
50' REAR SETBACK
100' Minimum Basement
PROPOSED RESIDENCE
4 Bedrooms
52'
SLAB
(NO GARAGE)
SLAB
20' SIDE SETBACK
70.8'
S 83 16' 00" E 200.00'
S 83 16' 00" E 200.00'
50' FRONT SETBACK
75'
75'
70'
50'
67'
35'
20'
DRIVE
9'
10'
Septic Tank
Pump Tank
* Must be 5' or greater setback from property line
Area covered with old brick - contact LSS prior to removal for guidance.
Valve Box
S 06°44' 00" W 100.00'
15200 August Lane
LOT 131 Arlington Forest
Scale: 1 inch = 30 feet
AUGUST LANE
* This is a proposed septic layout and is not intended to replace a survey.



Thompson Environmental Consulting
WATER · WASTEWATER · WETLANDS

15200 August Lane

0 12.5 25 50 75 100
Feet

Figure 1

PROPERTY DEED

STATE OF NORTH CAROLINA

Real Estate Excise Tax

$ 02.50

056255

SEP 18 '79

RB. 10703

DEED BOOK 4234 PAGE 0064

PRESENTED FOR REGISTRATION

SEP 18 11 12 AM '79

CHARLES E. BROWDER
REGISTER OF DEEDS
MECKLENBURG CO N.C.

Excise Tax | Recording Time, Book and Page

Tax Lot No. ..... Parcel Identifier No. .....

Verified by ..... County on the ..... day of ....., 19.....

by .....

Mail after recording to E. Joann Jones, 1302 Wembley Dr Charlotte NC 28205

This instrument was prepared by Wesley B. Grant, P. A., Concord, North Carolina

NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this 20th day of June, 19 78, by and between

GRANTOR	GRANTEE
Myra T. Jones (Widow)	Elva Joann Jones (Single) 1302 Wembley Dr. Charlotte, N.C. 28205

Enter in appropriate block for each party: name, address, and, if appropriate, character of 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.

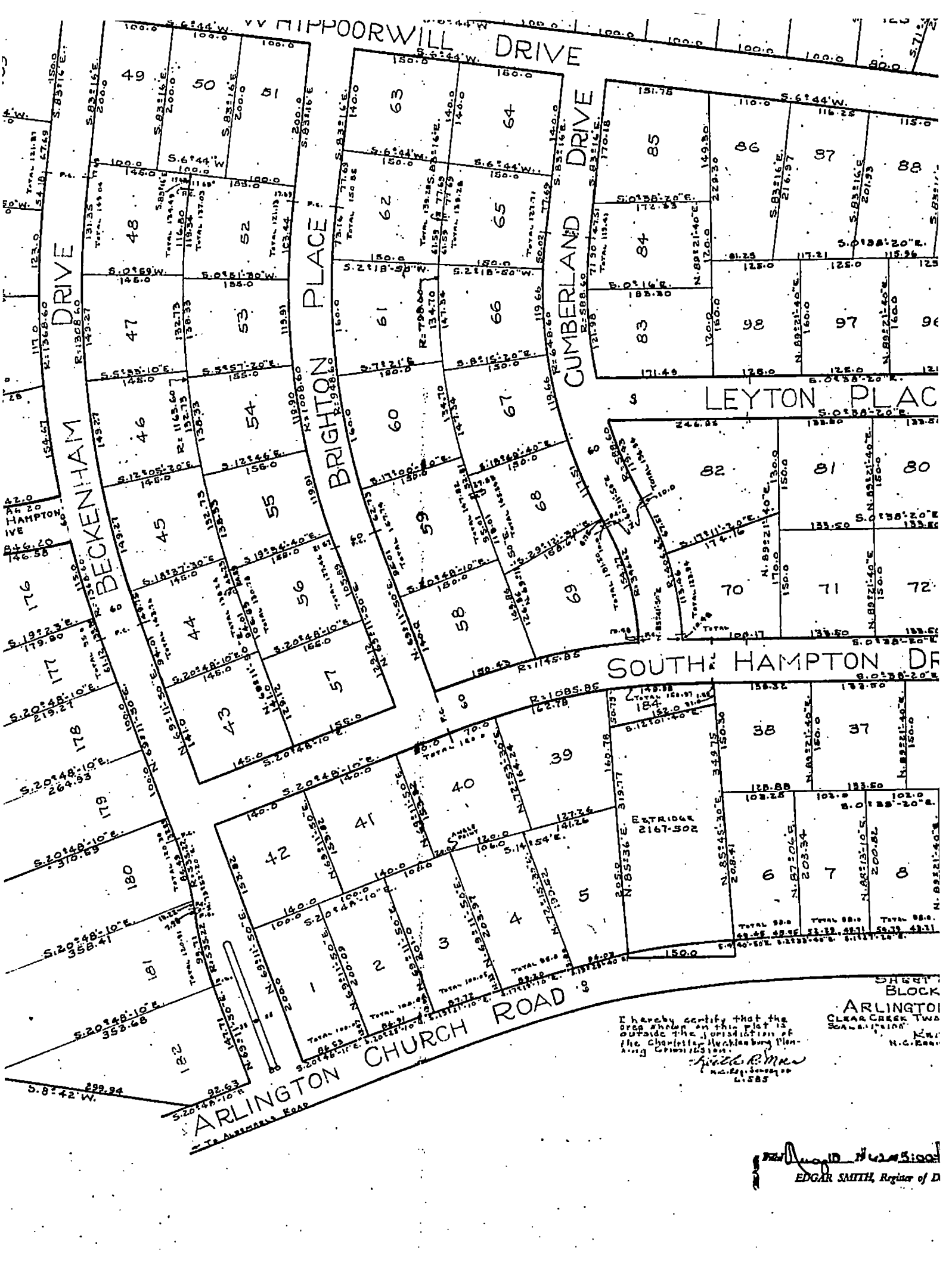
WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in ..... Township, Mecklenburg County,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

Being known and designated as all of Lot 131 in Block "B" of that certain subdivision known as ARLINGTON FOREST as shown on a map thereof recorded in the office of the Register of Deeds for Mecklenburg County, North Carolina, in Map Book 10, pages 137, 139 and 141.

This conveyance is made subject to certain restrictions recorded in the office of the Register of Deeds for Mecklenburg County in Book 2362, page 587.

Joann Jones will add $24.00 Stamps

Myra T Jones


WHIPPOORWILL DRIVE
BECKENHAM DRIVE
BRIGHTON PLACE
CUMBERLAND DRIVE
LEYTON PLAC
SOUTHAMPTON DR
ARLINGTON CHURCH ROAD
To Albemarle Road
I hereby certify that the area shown on this plat is outside the jurisdiction of the Charlotte-Mecklenburg Planning Commission.
EDGAR SMITH, Register of D

PRODUCT SPECIFICATION SHEETS

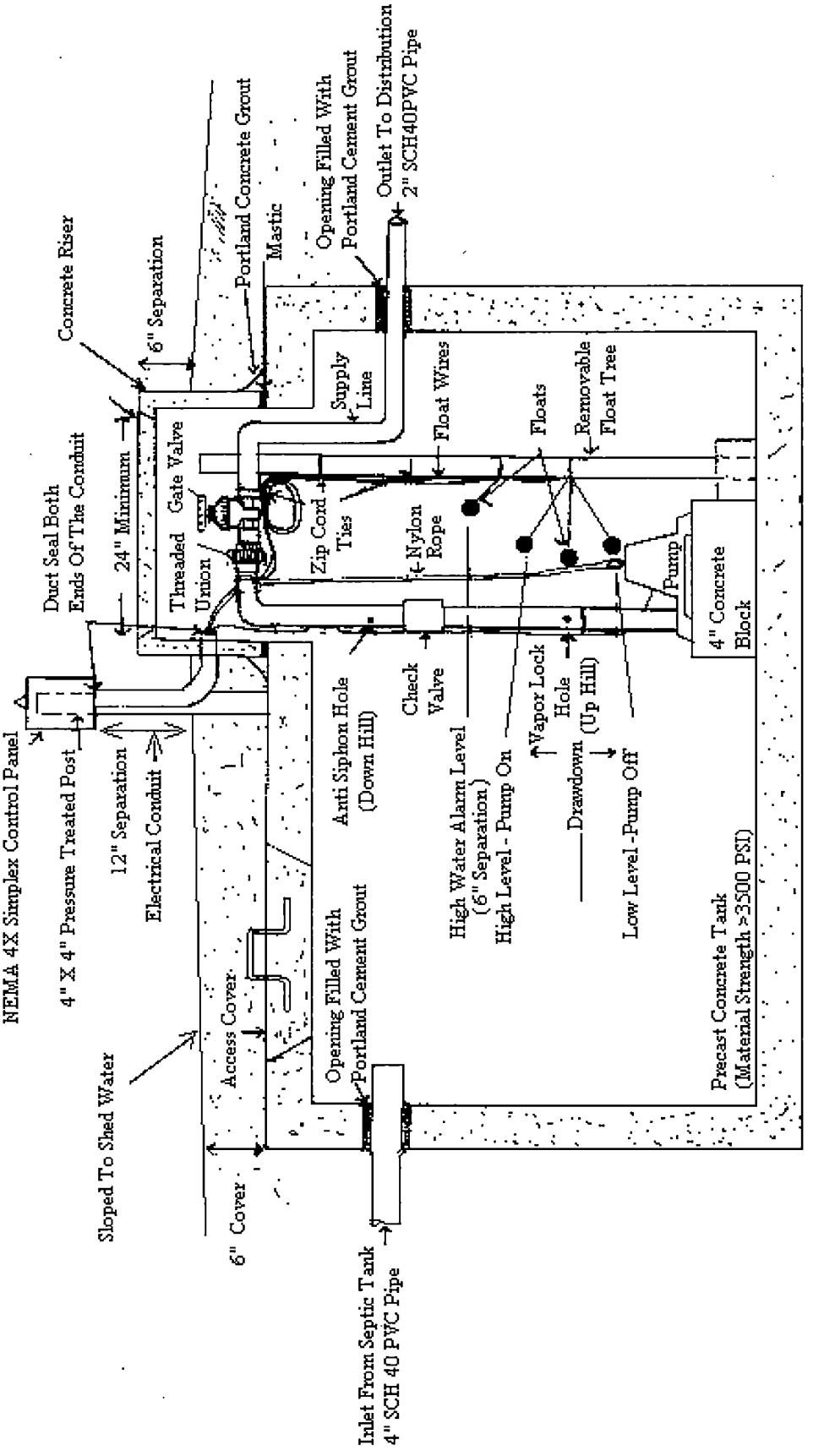
Thompson Environmental Consulting, Inc
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 13912928

Location: 15200 August Lane

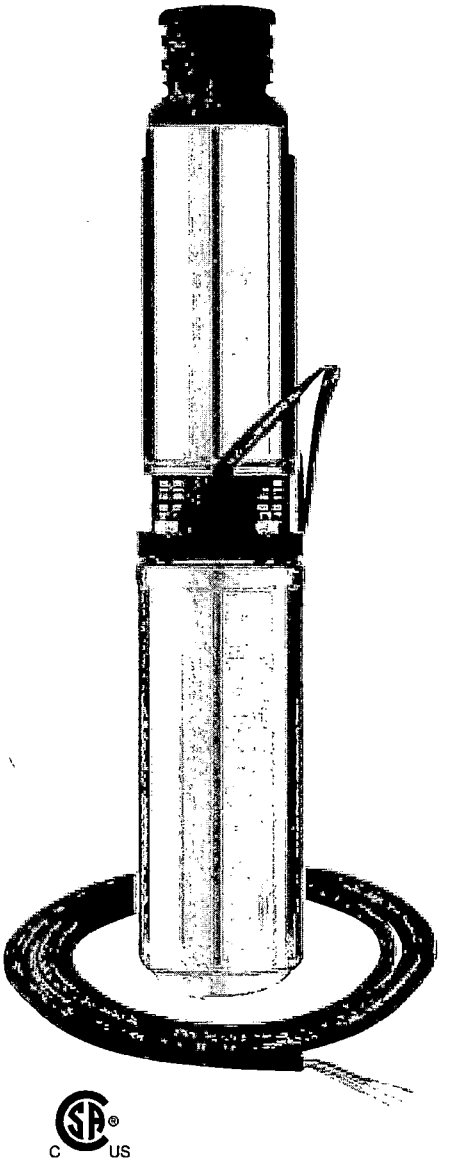
Date: February 25, 2020

Recommended Pump Tank Design



STA-RITE® ST.E.P Plus Series

4" high-head multi-stage submersible effluent pumps



The STEP Plus 4" submersible filtered effluent pumps in 10, 20, 30 and 50 GPM models offer dependable performance and value for high pressure filtered effluent applications.

These STEP Plus pumps will handle "dry run" conditions.

The 10, 20, 30 and 50 GPM are industry standard 3-3/4" in diameter.

APPLICATIONS

Filtered Effluent... for residential, commercial, and agricultural use.

SPECIFICATIONS

Shell – Stainless steel

Discharge –
10, 20 and 30 GPM models: fiberglass-reinforced thermoplastic;
50 GPM models: stainless steel

Discharge Bearing – Nylatron®

Impellers – Engineered composite

Diffusers – Engineered composite

Suction Caps – Engineered composite with stainless steel
wear ring

Thrust Pads – Proprietary spec.

Shaft and coupling – Stainless steel 300 grade

Intake – Engineered composite

Intake Screen – Polypropylene

Jacketed Cord – 600 Volt "SOOW" or 300 Volt "SJOW" jacketed 10' leads (2-wire with ground); optional 20', 30', 50' and 100' lengths available

FEATURES

Proven "Floating Impeller" Staging System – Incorporates 1st-in-class performance, sand handling and thrust management staging system with the industry exclusive "dry-run" design element. Reinforced engineered composites and stainless steel, offering high resistance to corrosion and abrasion.

Discharge – Tested-tough, fiberglass-reinforced thermoplastic, with proven internal check valve. Large wrench flats and rope hole.

Shell – Stainless steel pump shell offers high corrosion resistance.

Shaft – Hexagonal 3/8", 300-grade stainless steel pump shaft; offers generous impeller drive surfaces.

Shaft Bearing – Exclusive self-lubricating Nylatron bearing resists wear surface from sand.

Motor Bracket – Tested-tough, fiberglass-reinforced thermoplastic; incorporates an integral suction screen.

In order to provide the best products possible, specifications are subject to change.

STA-RITE® ST.E.P Plus Series

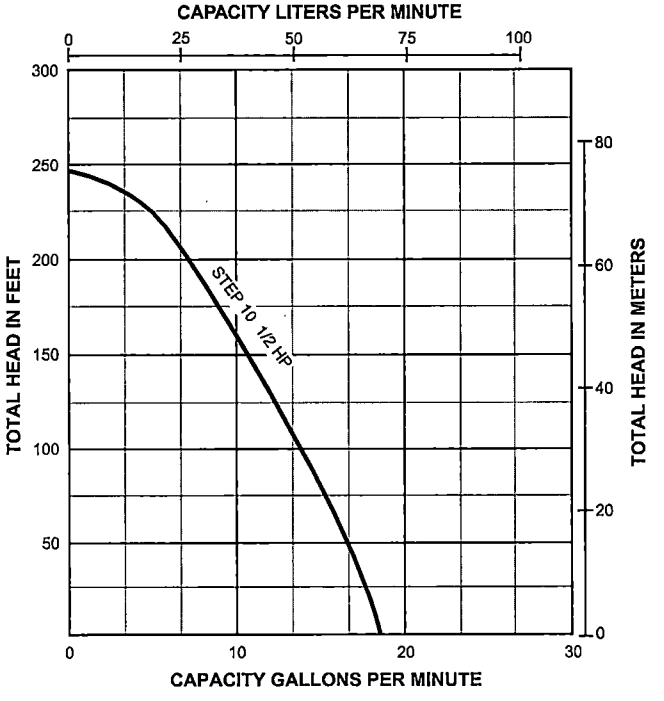
4" high-head multi-stage submersible effluent pumps

ORDERING INFORMATION						
CATALOG NUMBER	HP	STAGES	MAX. LOAD AMPS	VOLTS	PHASE/ CYCLES	CORD LENGTH
STEP10	1/2	7	12.0	115	1/60	10'
STEP10X100FT-05121	1/2	7	12.0	115	1/60	100'
STEP10X30FT	1/2	7	12.0	115	1/60	30'
STEP10X50FT	1/2	7	12.0	115	1/60	50'
STEP20	1/2	5	12.0	115	1/60	10'
STEP20X100FT-05121	1/2	5	12.0	115	1/60	100'
STEP20X30FT	1/2	5	12.0	115	1/60	30'
STEP20X50FT	1/2	5	12.0	115	1/60	50'
STEP30-05121	1/2	3	9.5	115	1/60	10'
STEP30X100FT-05121	1/2	3	12.0	115	1/60	100'
STEP30X30FT-05121	1/2	3	12.0	115	1/60	30'
STEP30X50FT-05121	1/2	3	12.0	115	1/60	50'
STEP30-05221	1/2	3	4.7	230	1/60	10'
STEP30X100FT-05221	1/2	3	4.7	230	1/60	100'
STEP30X30FT-05221	1/2	3	4.7	230	1/60	30'
STEP30X50FT-05221	1/2	3	4.7	230	1/60	50'
STEP30-10221	1	5	9.1	230	1/60	10'
STEP30X100FT-10221	1	5	9.1	230	1/60	100'
STEP30X30FT-10221	1	5	9.1	230	1/60	30'
STEP30X50FT-10221	1	5	9.1	230	1/60	50'
STEP30-15221	1-1/2	6	11.0	230	1/60	10'
STEP30X100FT-15221	1-1/2	6	11.0	230	1/60	100'
STEP30X30FT-15221	1-1/2	6	11.0	230	1/60	30'
STEP30X50FT-15221	1-1/2	6	11.0	230	1/60	50'
STEP50-10221	1	3	9.1	230	1/60	10'
STEP50X100FT-10221	1	3	9.1	230	1/60	100'
STEP50X30FT-10221	1	3	9.1	230	1/60	30'
STEP50X50FT-10221	1	3	9.1	230	1/60	50'
STEP50-15221	1-1/2	4	11.0	230	1/60	10'
STEP50X100FT-15221	1-1/2	4	11.0	230	1/60	100'
STEP50X30FT-15221	1-1/2	4	11.0	230	1/60	30'
STEP50X50FT-15221	1-1/2	4	11.0	230	1/60	50'

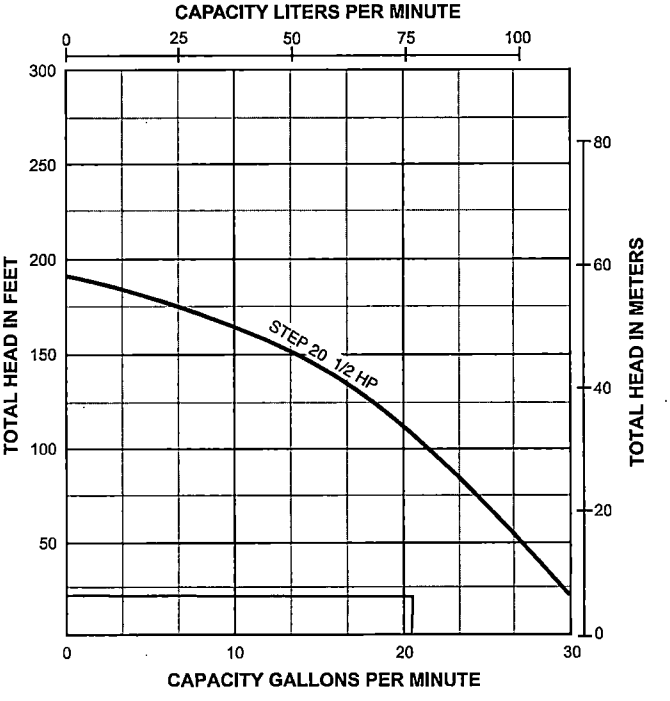
STA-RITE® ST.E.P Plus Series

4" high-head multi-stage submersible effluent pumps

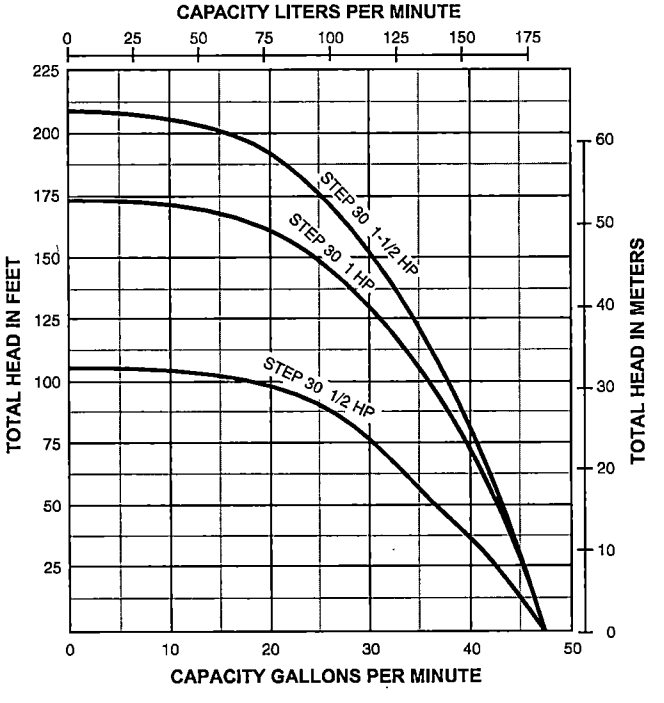
PUMP PERFORMANCE – 10 GPM



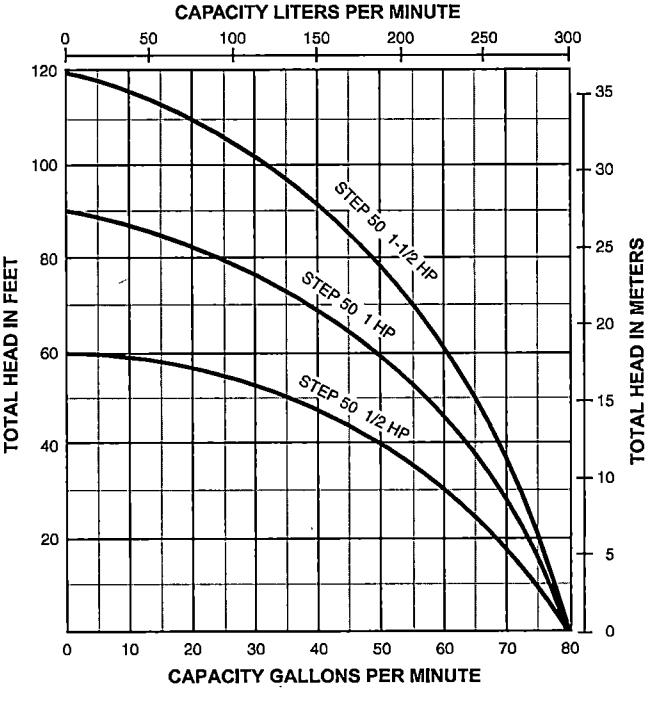
PUMP PERFORMANCE – 20 GPM



PUMP PERFORMANCE – 30 GPM



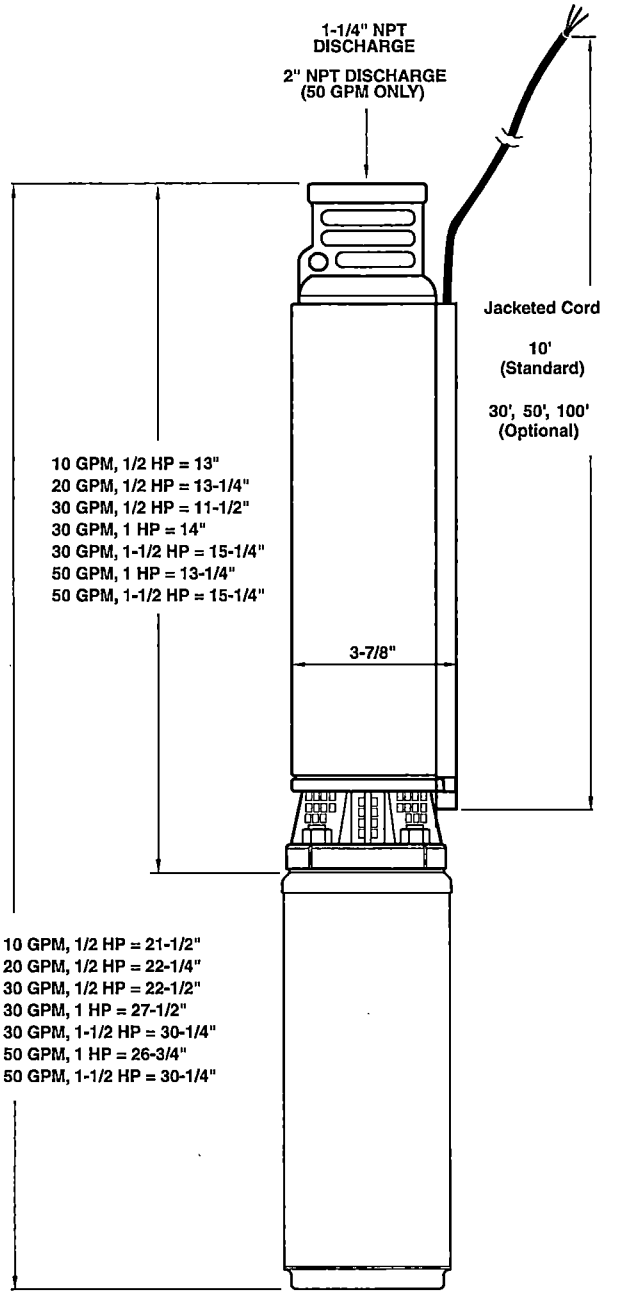
PUMP PERFORMANCE – 50 GPM



STA-RITE® ST.E.P Plus Series

4" high-head multi-stage submersible effluent pumps

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.

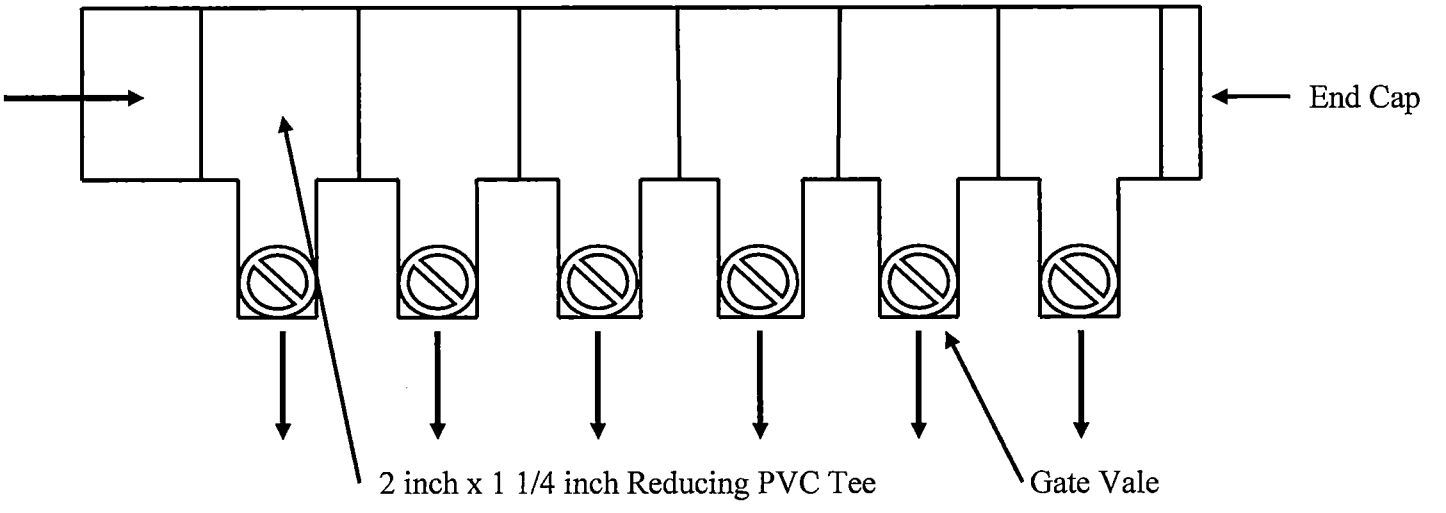
Thompson Environmental Consulting
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 13912928

Location: 15200 August Lane

Date: February 25, 2020

Recommended PPBPS Manifold Setup



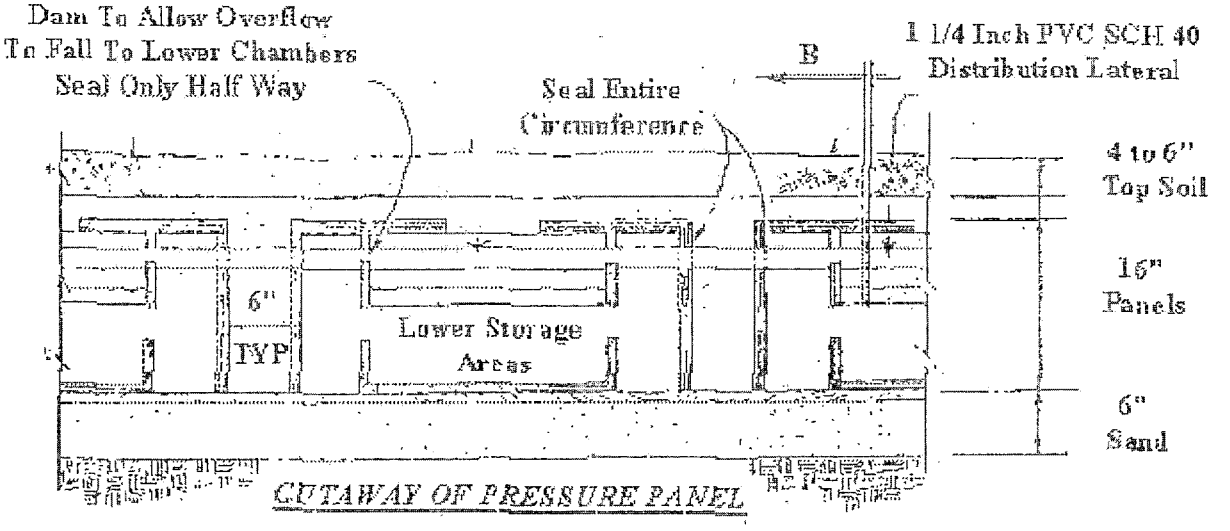
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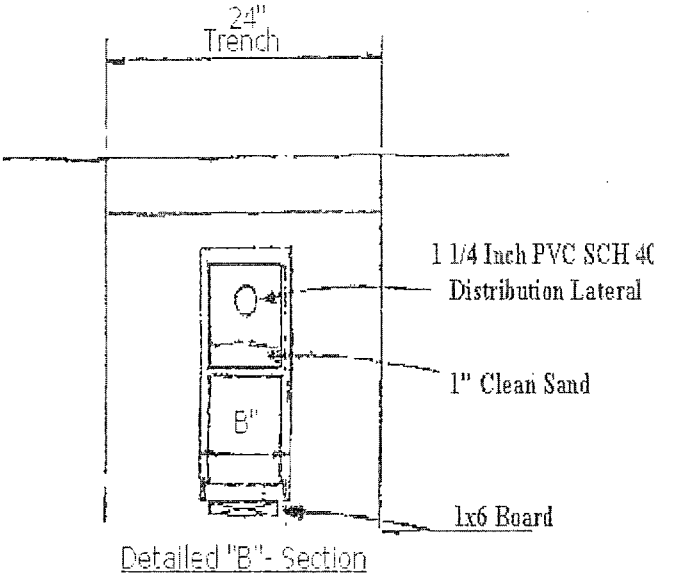
Tax ID Number: 13912928

Location: 15200 August Lane

Date: February 25, 2020

PPBPS PROFILE





Andrade, Emily

From: Andrade, Emily
Sent: Friday, February 03, 2017 10:29 AM
To: 'mjconstruction@gmail.com'
Subject: 15200 August Lane
Attachments: Addendum.pdf

Mr. Llora,

I will need this form filled out by the owner before I can process the application. I have already taken the fee from your account with the city.

Thank You,

Emily Andrade
Environmental Health Admin Support Assistant III
Mecklenburg County Health Department
700 N. Tryon Street, Suite 211 Charlotte, NC 28202-2222

Office: (704) 432-3959 Fax: (704) 336-6894
Email: Emily.Andrade@MecklenburgCountyNC.gov

Diversity Makes Us Better!

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Andrade, Emily

From: Andrade, Emily
Sent: Friday, February 03, 2017 11:28 AM
To: 'Matt Jones'
Subject: RE: 15200 August Lane

I apologize that is how I saw your last name spelled in the application. It was spelled Michael Llora

From: Matt Jones [mailto:mjconstruction@gmail.com]
Sent: Friday, February 03, 2017 11:24 AM
To: Andrade, Emily <Emily.Andrade@mecklenburgcountync.gov>
Subject: Re: 15200 August Lane

Emily,

Just curious who Mr. Llora is and why he used my email address.

Thanks for any info,

Matt

On Fri, Feb 3, 2017 at 10:29 AM, Andrade, Emily <Emily.Andrade@mecklenburgcountync.gov> wrote:

> Mr. Llora,
>
> I will need this form filled out by the owner before I can process the application. I have already taken the fee from your account with the city.
>
> Thank You,

Emily Andrade

Environmental Health Admin Support Assistant III

Mecklenburg County Health Department

700 N. Tryon Street, Suite 211 Charlotte, NC 28202-2222

Office: (704) 432-3959 Fax: (704) 336-6894

Email: Emily. Andrade@MecklenburgCountyNC.gov

Diversity

Makes Us Better!

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MECKLENBURG COUNTY
Health Department

E. Winters Mabry, MD
Director

(704) 432-3199

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

Your signature below confirms the following:

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

15200	August Lane	Charlotte
Number	Street	Town

(Or Parcel Number)

ELVA-BANNE JONES
Property Owner (print name)

Elva Joanne Jones
Property Owner (signature)

2-14-2017
Date

MECKLENBURG COUNTY
Health Department

E. Winters Mabry, MD
Director

(704) 432-3199

Addendum to Application for
New Well or Septic System Installation
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15200	August Lane	Charlotte
Number	Street	Town

(Or Parcel Number)

ELVA BANNE JONES
Property Owner (print name)

Elva Joanne Jones
Property Owner (signature)

2-14-2017
Date

DOOR SCHEDULE

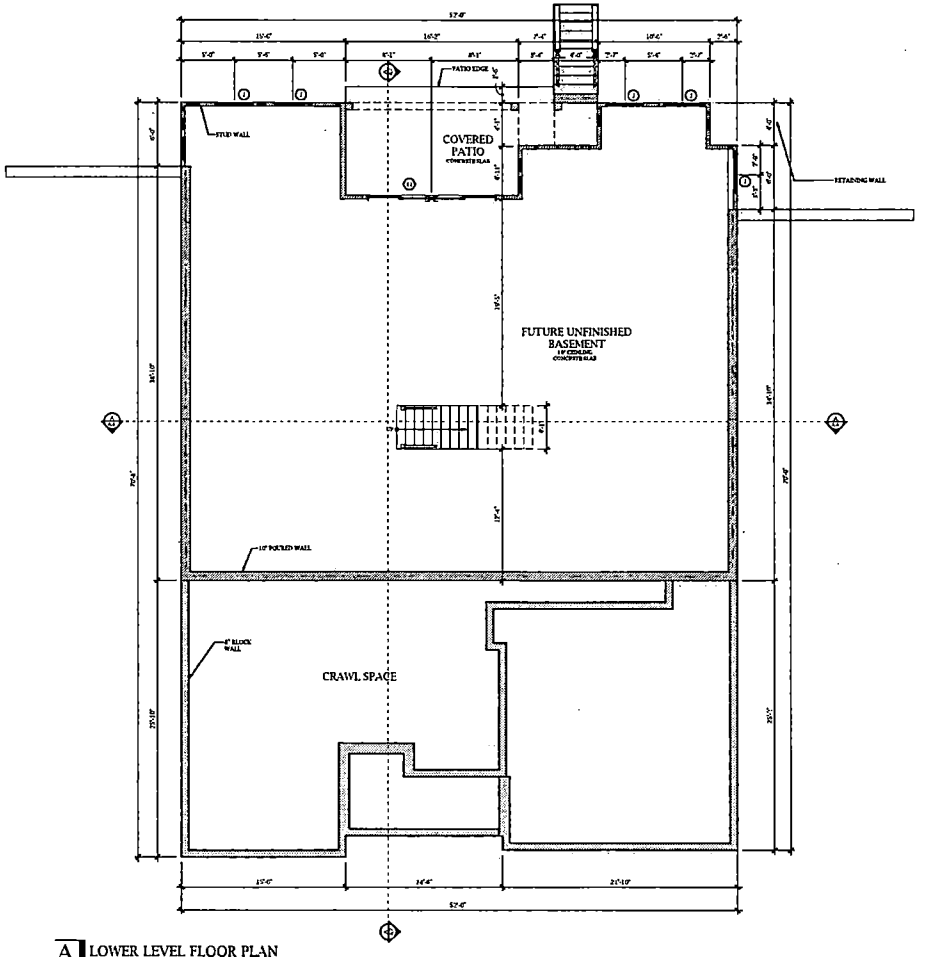
	SIZE	DESCRIPTION
1	2'6 x 7'	ENTRY W/ 1/2 SIDELITES
2	3'0 x 7'	EXTERIOR DOOR
3	3'0 x 6'	20 MINUTE FIRE-RATED
4	2'6 x 6'	PANEL DOOR
5	2'6 x 6'	PANEL DOOR
6	2'6 x 6'	PANEL DOOR
7	(2) 2'6 x 6'	PANEL DOOR
8	(2) 2'6 x 6	PANEL DOOR
9	2'6 x 6'	PANEL DOOR
10	5'0 x 6'	PANEL DOOR
11	12'0 x 7'	SLIDER DOOR
12	4'0 x 6'	CASED OPENING
13	4'0 x 6'	CASED OPENING
14	7'0 x 6'	CASED OPENING
15	7'0 x 6'	CASED OPENING

WINDOW SCHEDULE

	SIZE	DESCRIPTION
A	(7) 3'0 x 5'	DOUBLE HUNG
B	3'0 x 4'	DOUBLE HUNG
C	6'0 x 4'	FIXED
D	3'0 x 4'	DOUBLE HUNG
E	3'0 x 4'	DOUBLE HUNG
F	2'0 x 3'	DOUBLE HUNG
G	(4) 3'0 x 4'	DOUBLE HUNG
H	3'0 x 3'	DOUBLE HUNG
I	3'0 x 5'	DOUBLE HUNG

SQUARE FOOTAGE

MAIN LEVEL HEATED	2,829 SQ. FT.
BONUS ROOM HEATED	517 SQ. FT.
TOTAL HEATED	3,345 SQ. FT.
FUTURE BASEMENT	2,016 SQ. FT.
FRONT PORCH	91 SQ. FT.
TWO-CAR GARAGE	468 SQ. FT.
COVERED TERRACE	168 SQ. FT.
LOWER LEVEL TERRACE	103 SQ. FT.
UNFINISHED STORAGE	797 SQ. FT.
TOTAL UNHEATED	3,743 SQ. FT.
TOTAL UNDER ROOF	6,343 SQ. FT.



A LOWER LEVEL FLOOR PLAN
SCALE : 1/4" = 1'-0"

BUILT BY:

M&L Construction GROUP

DESIGNED BY:

3D RESIDENTIAL

Project Name / Address:
JERONIMO & ALMA VEGA

15200 AUGUST LN
MINT HILL, NC
28227

Job Number:
31-AUGUST-17

Date	Revision
8/9/17	FLOORS & ELEVATIONS V1
8/31/17	FLOORS & ELEVATIONS V2
9/12/17	GENERAL
9/25/17	SITE PLAN

LOWER LEVEL PLAN

A.3

THOMPSON ENVIRONMENTAL CONSULTING, INC.
WATER ♦ WASTEWATER ♦ WETLANDS

April 25, 2022

Braedon Shelton, REHS
Valerie C. Woodard Center
3205 Freedom Drive, Suite 8000
Charlotte, NC 28208

Dear Mr. Shelton,

The purpose of this letter is to inform you that I have performed an inspection of the wastewater treatment and disposal system that has been installed for 15200 August Lane, Charlotte, North Carolina and am satisfied with the installation performed by Lago Vista Septic.

I was notified early in the installation process that the system needed to be altered due to site changes and we worked with Lago Vista to make those changes and install the required drainline length for the project.

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

Sincerely,

Larry B. Thompson, Jr., NCEHS, LSS

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