SUPERVISOR/ADMINISTRATIVE PROFESSIONAL CHECKLIST

NEW SEPTIC ☑ NEW WELL ☐ USE EXISTING ☐ MODIFIED PLOT PLAN ☐

New Septic Fees Paid

IP ($250.00) SP 6/8/2020 Initial/Date

CA ($200.00) _____Initial/Date

OP ($200.00) _____Initial/Date

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

New Well Fees Paid: $550.00 _____ Initial/Date

Use Existing Fees Paid: $100.00 _____Initial/Date

Alteration Fees Paid: $300 Total $200 _____Initial/Date (If use existing was part of payment)

Modified Plot Plan Fees Paid: $100.00 _____Initial/Date

Floor plans need to be submitted and reviewed before CA can be issued ☐ Review ☐

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

Septic file complete ☐_____ Well complete ☐ _____

Send permit for signature ☑ AB 8-10-20 3/12/20 Signature received ☑ 8/12

This septic system requires a certified operation 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

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

File #: 8855B Permit #: 30011333 Tax Parcel #: 193-202-10

Property Owner: Poliana Carvalho

Job Location Address: 9000 Boyd Dr.

City: Matthews State: NC Zip Code: 28105

Operation Permit Issuance Date: 1/19/21 Contractor Name: Lago Vista

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

Liquid Capacity of Septic Tank: 1500 gallons Tank Manufacture Pellinger Effluent Pump Model: 290

Drainfield Installation ☐ N/A

Trench Depth: 32 inches

Trench Width: 3 feet

Line Spacing: 8 feet (O.C.)

Total line length: 267 feet (50', 67', 50', 50', 50')

# of Lines: 5 @ _____ feet Vertical

Depth of Media: \ inches (Type) PPBPS

Depth of Cover: _____ 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: 5 feet

Distance from Property Line: 5 feet

Distance from Water Supply Source: >10 feet

Inspection Dates

Tank(s) Inspected: 1/6/21

Excavation Inspected: 1/6/21

Pump & Controls Inspected: 1/7/21

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

* See Attached Sketch.

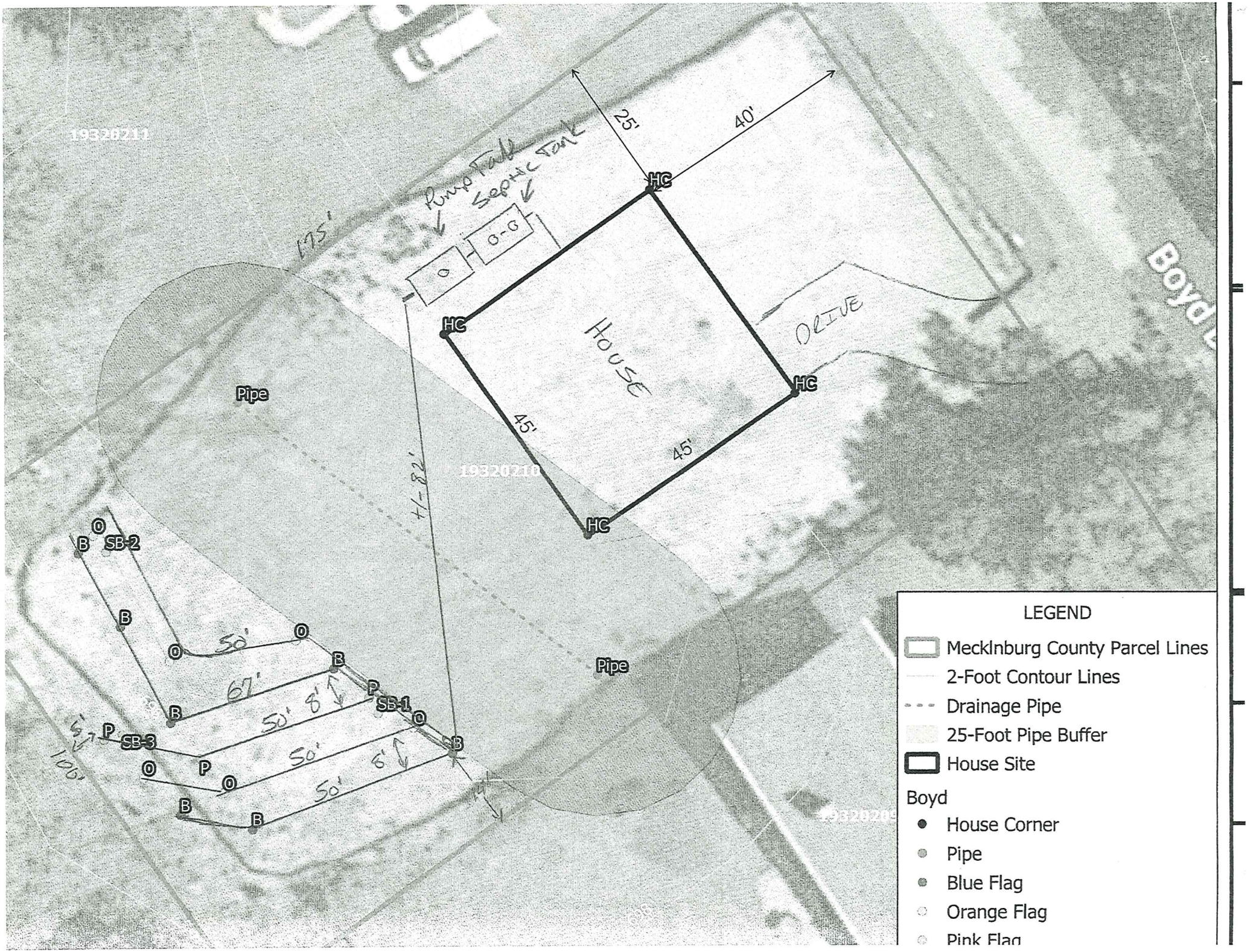
Installed in Accordance to Session Law 2018-112 Section 11.(c).

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: IV a. Pressure dosed PPBPS System (Vertical)

DENR Authorized Agent: Braedon Shelton 2661 Signature: Braedon Shelton 2661


19320211
Pump Tank
Septic Tank
25'
40'
HC
HC
HC
HC
HOUSE
DRIVE
45'
45'
175'
+/- 82'
Pipe
Pipe
19320210
SB-1
SB-2
SB-3
50'
67'
50'
8'
50'
6'
50'
5'
100'
LEGEND
Mecklnburg County Parcel Lines
2-Foot Contour Lines
Drainage Pipe
25-Foot Pipe Buffer
House Site
Boyd
House Corner
Pipe
Blue Flag
Orange Flag
Pink Flag

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 # 8855B App# 30011333 Tax Parcel# 193-202-10

Property Owner: Poliana Carvalho

Job Location Address: 9000 Boyd Dr.

City: Matthews State: NC Zip Code: 28105

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

   ☒ YES ☐ NO

   Comments: _____

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

   ☒ YES ☐ NO

   Comments: _____

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

   ☒ YES ☐ NO

   Comments: Session Law 2018-112 Section 11.(c). Permit

*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

12/23/20 — Date

_____
Others Present

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 # 8855B App# 11333 Tax Parcel# 193-202-10

Property Owner: Poliana Carvalho

Job Location Address: 9000 Boyd Dr.

City: Matthews State: NC Zip Code: 28105

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

   ☒ YES ☐ NO

   Comments:

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

   ☒ YES ☐ NO

   Comments:

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

   ☒ YES ☐ NO

   Comments: A Power line has marked to go through the drain fields. Homeowner has notified.

*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.**

Brandon Shelton 2661
Authorized Agent

12/23/20
Date

Others Present

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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

File #: 8855 B Permit #: 30011333 Tax Parcel #: 193-202-10

Property Owner: Poliana Carvalho

Job Location Address: 9000 Boyd Dr.

City: Matthews State: NC Zip Code: 28105

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: Pressure dosed PPBPS system (vertical)

DENR Authorized Agent: Braedon Shelton Date: 1/19/21

Signature: Braedon Shelton 2661

Davenport, Bryan C.

From: Larry Thompson <larry@thompsonenv.com>
Sent: Wednesday, February 3, 2021 10:06 AM
To: Davenport, Bryan C.
Cc: Carlos
Subject: [External]Re: 9000 Boyd Dr

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hey Bryan,

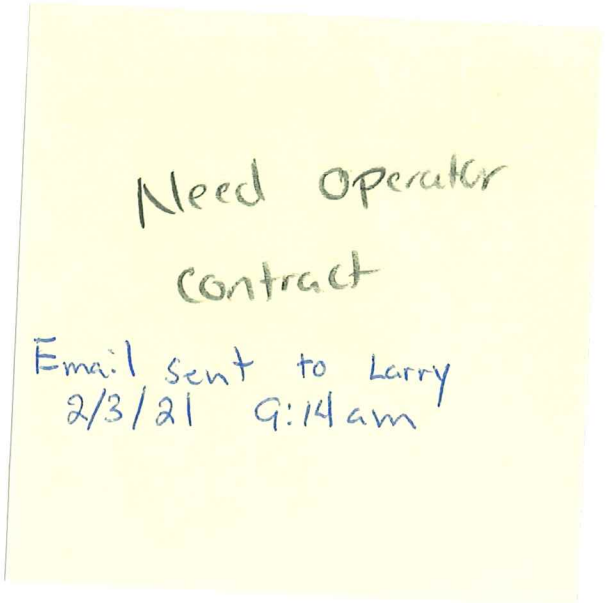
I will need to check with Carlos to see who he may have referred them to...

Thanks!

Larry Thompson, PWS, LSS
Thompson Environmental Consulting, Inc.
www.thompsonenv.com
704-301-4881

On Wed, Feb 3, 2021, 9:14 AM Davenport, Bryan C. <Bryan.Davenport@mecklenburgcountync.gov> wrote:

> Good Morning Mr. Larry
>
> I hope things are going good for you this morning. I was wondering could you send over a operator contract for the septic system located at 9000 Boyd Dr. When you get a chance.
>
> Bryan Davenport, REHS
>
> Environmental Specialist
>
> Environmental Health Program
>
> Mecklenburg County Public Health
>
> Cell : 704-574-5006
>
> Email : Bryan.Davenport@MeckNC.gov



8855B
#11333

MECKLENBURG COUNTY
HEALTH DEPARTMENT

8 JUN '20 AM 9:39

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: 193-202-10
STREET ADDRESS: 9000 Boyd DR
CITY: Matthews
STATE: NC ZIP: 28105
SUBDIVISION NAME: N/A
LOT #: 41 LOT SIZE (acres): 0.41
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: 2,286
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 2
FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
◉ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

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

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

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

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

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

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

8A. RANK: 1 2 3 4 ____

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: Poliana Carvalho
ADDRESS: 7525 Briardale
CITY: Charlotte
STATE: NC ZIP: 28212
WORK PHONE: (980) 202-8316
MOBILE PHONE: (704) 819-3920
FAX: _____
E-MAIL: po-liana-carvalho@hotmail.com

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: _____
ADDRESS: _____
CITY: _____
STATE: _____ ZIP: _____
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208 OFFICE: (980) 314-1680, FAX: 704-336-6894

Revised on: 03/27/19

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.

APC (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.

A Roland Carvallo
Property Owner's or Owner's Legal Representative Signature

06/03/2020
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
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208 OFFICE: (980) 314-1680, FAX: 704-336-6894

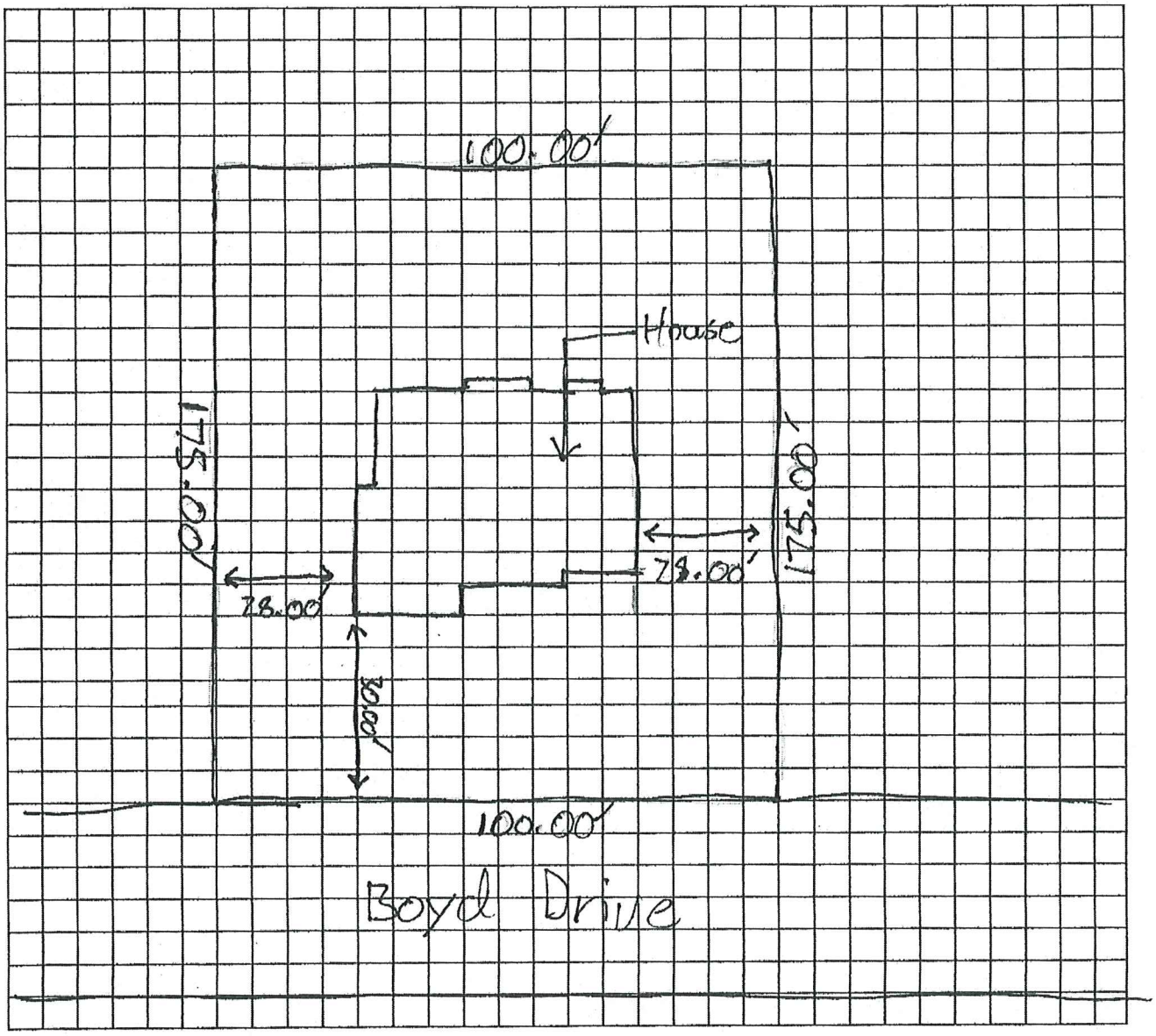
File #: _____

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: 9000 Boyd Dr, Matthews NC 28105 Tax Parcel #: 193-202-10

Subdivision Name: _____ Lot #: 41

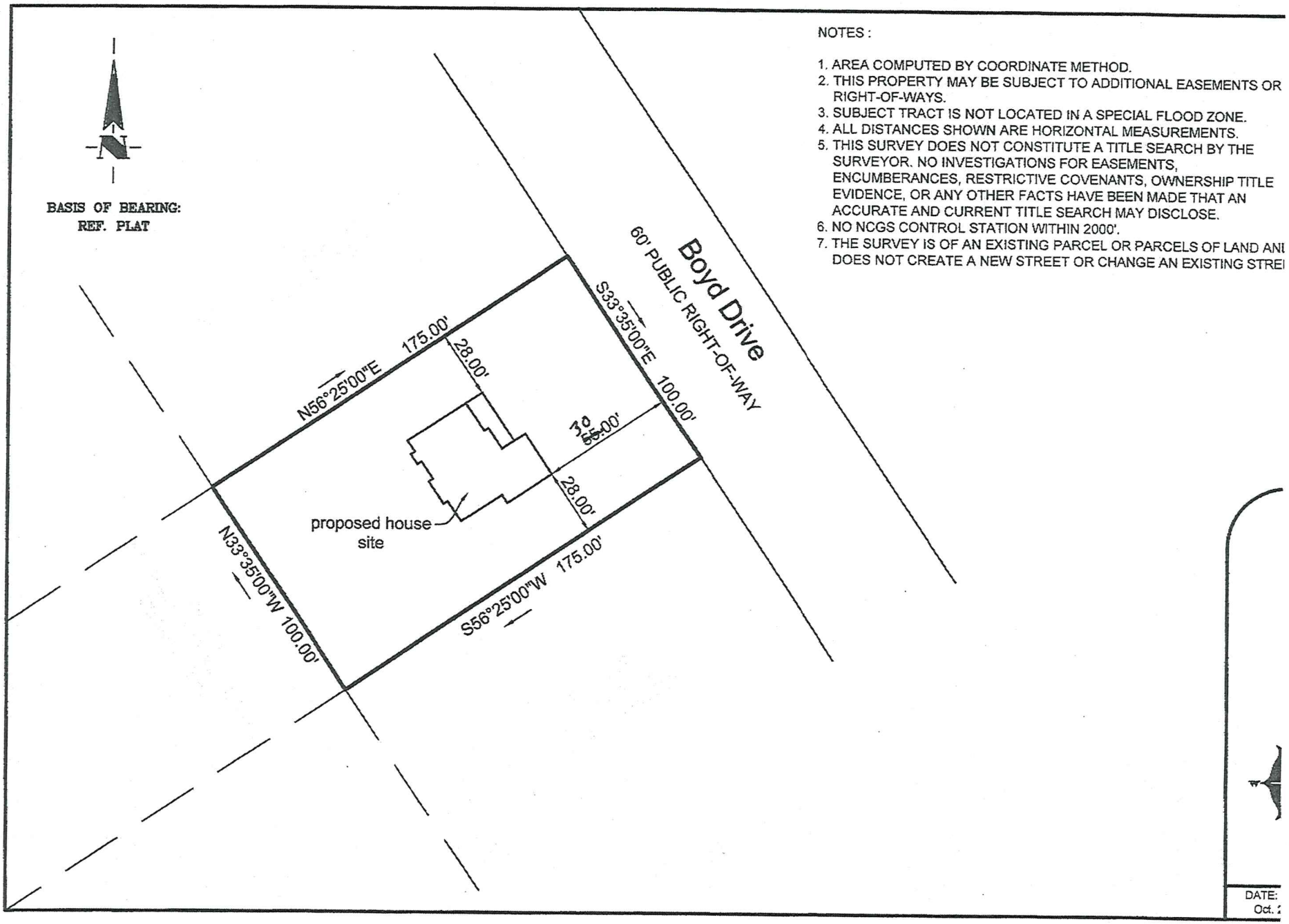


Poliana Carvalho
Property Owner's or Owner's Legal Representative Signature

Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208, OFFICE: (980) 314-1680, FAX: 704-336-6894

Revised on: 03/27/19



NOTES :

1. AREA COMPUTED BY COORDINATE METHOD.
2. THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL EASEMENTS OR RIGHT-OF-WAYS.
3. SUBJECT TRACT IS NOT LOCATED IN A SPECIAL FLOOD ZONE.
4. ALL DISTANCES SHOWN ARE HORIZONTAL MEASUREMENTS.
5. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. NO INVESTIGATIONS FOR EASEMENTS, ENCUMBERANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS HAVE BEEN MADE THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
6. NO NCGS CONTROL STATION WITHIN 2000'.
7. THE SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND ANI DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STRE

DATE:
Oct. 2

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

Sheet: 1 of 2
Property ID: 193-202-10
Lot #: 41
File #: 8855B
AppID: 11333

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: Poliana Carvalho
Address: 7525 Briardale, Charlotte, NC 28212
Proposed Facility: 4 Bedroom House
Design Flow (.1949): 480 GPD
Location of Site: 9000 Boyd Dr, Matthews, NC 28105
Water Supply: [ ] Public [ ] Individual [ ] Well
Evaluation Method: [X] Auger Boring [ ] Pit
Type of Wastewater: [X] Sewage [ ] Industrial Process

Applicant: owner
Date Evaluated: 6/22/2020
Property Size: 0.41 ac
Property Recorded: 1955
[ ] Spring [X] Municipal
[ ] Cut
[ ] 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 #A	LS 3%	0 - 20	sbk CL	SS SP FR SEXP	>48"	48	NA	NA		PS IV 0.3	35"
		20 - 48	sbk C	S P FR/FI SEXP							
Boring #B	LS 5%	0 - 48	sbk C	S P FI SEXP	>48"	48	NA	NA		PS IV 0.3	34"
Boring #C	LS 5%	0 - 4	sbk CL	SS SP FR SEXP	>48"	48	NA	NA		PS IV 0.3	34"
		4 - 34	sbk C	S P FI SEXP							
		34 - 48	sbk CL	SS SP FR SEXP							
Boring #D	LS 2%	0 - 48	sbk C	S P FI SEXP	10YR 6/1 at 44"	48	NA	NA		PS IV 0.3	32"

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

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

COMMENTS: 100% Repair not required.

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

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

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

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

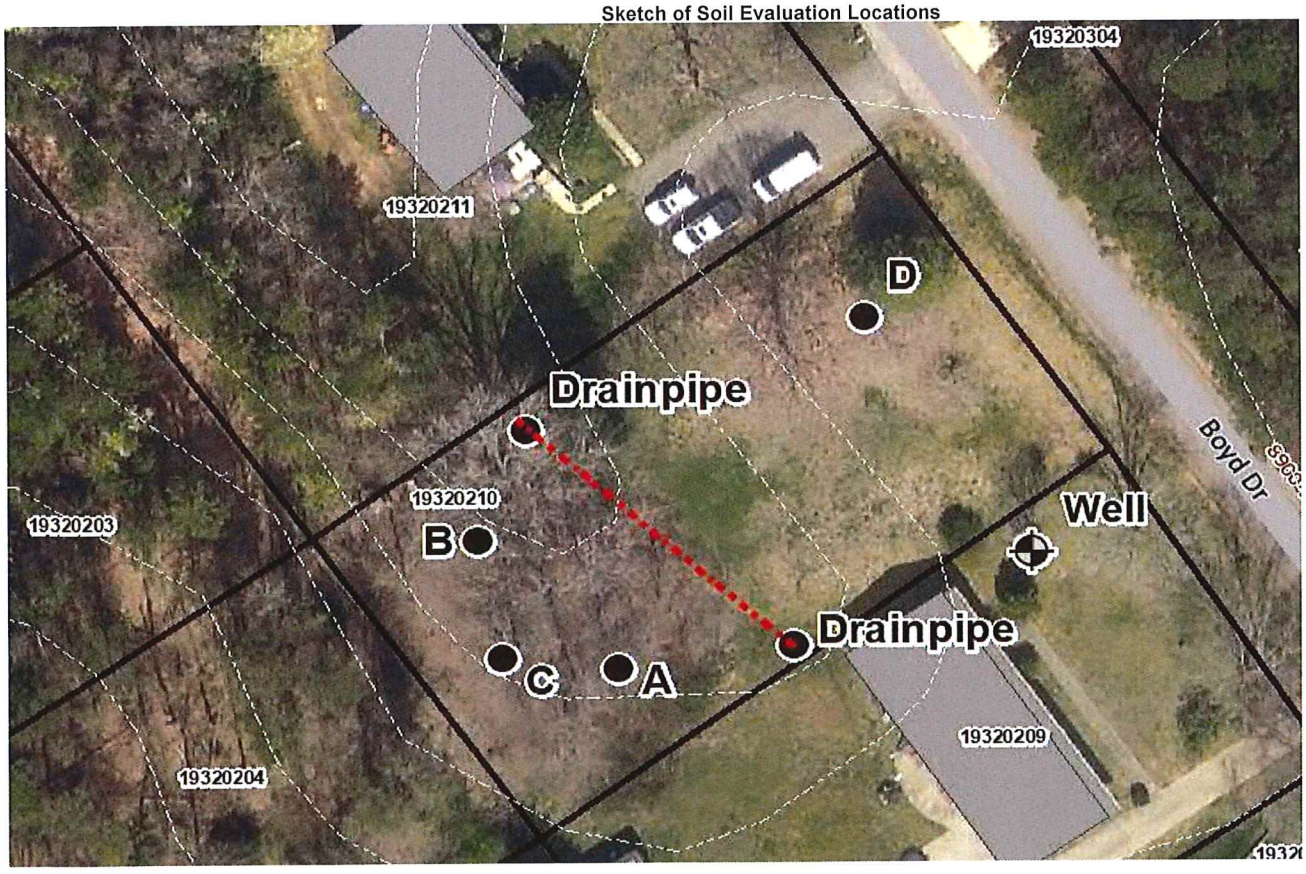
Consistence
Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

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

Mineralogy
SEXP-Slightly Expansive
EXP-Expansive

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

Sketch of Soil Evaluation Locations



MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	06/08/20	**Amount:**	250.00
Receipt #:	122705	**Tendered:**	250.00
Check / Auth #:	MC 01710E	**Returned:**	0.00
Received By:	PLACILJ		

Account Information

Account #: 200000
Contractor: SAMUEL DECAMPOS
Attn:
Address: 8053 SHOREWOOD DR
Address:
City/State/Zip: CHARLOTTE, NC 28277

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 9000 BOYD DR		1	250.00	250.00

Mecklenburg
Environmental Health
5205 Freedom Drive
Charlotte, NC 28208
Phone: (980) 314-1651
06/08/20 14:23

Sale

Merchant ID: 153629
Sequence #: 005
Card Type : MASTERCARD
Auth. Code: 01710E
Acct. No: xxxxxxxxxxxx1122

Amount : 250.00

APPROVED

payment taken over the phone

Signature

I agree to pay the above total amount according to the card issuer agreement (merchant agreement if credit voucher)

We appreciate your payment!
Thank You for Your Business!

Merchant Copy

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

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

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 #: **30011333** GWS File #: **8855B** Tax Parcel #: **193-202-10**

- 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):** 7/31/2025

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

Structure Type: HOUSE Size (ft^2): 2286 # Bedrooms: 4 Max. Occup.: 8

Building Foundation: Crawl Space Water Supply: Municipal

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

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	8	Absorption Area (ft^2):	800	Total Trench Length (ft):	267
Maximum Trench Depth (in):	32	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: Bryan Davenport Owner/Legal Agent: Poliana Carvalho
Print Name

Signature: Bryan Davenport Signature: Poliana Carvalho

Date Issued: 7/31/2020

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 #: **30011333** GWS File #: **8855B** Tax Parcel #: **193-202-10**

- 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):** 7/31/2025

Type of Installation: Residential - New System
Lot Number: 0
Structure Type: HOUSE Size (ft^2): 2286 # Bedrooms: 4 Max. Occup.: 8
Building Foundation: Crawl Space
Water Supply: Municipal

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

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	8	Absorption Area (ft^2):	800	Total Trench Length (ft):	267
Maximum Trench Depth (in):	32	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: Bryan Davenport

Signature: Bryan Davenport

Date Issued: 7/31/2020

Owner/Legal Agent: _____
Print Name

Signature: _____

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 #: **30011333** GWS File #: **8855B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All components of the septic system must be located at least 100 ft. from all private wells (saprolite system).
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- The permitted system design requires a pressure manifold with varying tap diameters and/or pipe schedules. The contractor should review the specification detail provided by the system designer prior to bidding the project.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.
- The septic system shall be located at least 15 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.

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: Bryan Davenport

Signature: Bryan Davenport

Date Issued: 7/31/2020

Owner/Legal Agent: _____
Print Name

Signature: _____

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 #: 30011333 GWS File #: 8855B

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All components of the septic system must be located at least 100 ft. from all private wells (saprolite system).
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- The permitted system design requires a pressure manifold with varying tap diameters and/or pipe schedules. The contractor should review the specification detail provided by the system designer prior to bidding the project.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.
- The septic system shall be located at least 15 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

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: Bryan Davenport

Signature: Bryan Davenport

Date Issued: 7/31/2020

Owner/Legal Agent: _____
Print Name

Signature: _____

DocuSign Envelope ID: FAACA19E-8329-4EC5-8875-FA66F8A251AB

AGENT AUTHORIZATION FORM

PROPERTY LEGAL DESCRIPTION:

LOT NO. _____ PHASE _____ PARCEL ID: 19320210

STREET ADDRESS: 9000 Boyd Drive
Matthews, NC 28107

Please print:

Property Owner: Poliana Carvalho

Property Owner: Samuel Decampos

The undersigned, registered property owners of the above noted property, do hereby authorize

Larry Thompson, LSS, of Thompson Environmental Consulting, Inc.
(Contractor / Agent) (Name of consulting firm)

to act on my behalf and take all actions necessary for the processing, issuance and acceptance of this permit or certification and any and all standard and special conditions attached.

Property Owner's Address (if different than property above):
8053 shorewood drive Charlotte 28277

Telephone: 980-202-8316

We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge.

From the Consultant: The NC LSS evaluation attached to this application is to be used to produce a design and construction features for permitting in accordance with Session Law 2018-112 Section 11. (c).

Owner Signature:
DocuSigned by:
Poliana Carvalho
59C5A505516C4D8...
Date: 7/29/2020 | 7:33 AM PDT

Owner Signature:
DocuSigned by:
01E87CE4B56A40E...
Date: 7/29/2020 | 11:25 AM EDT

Residential Subsurface Wastewater Treatment and Disposal System Proposal

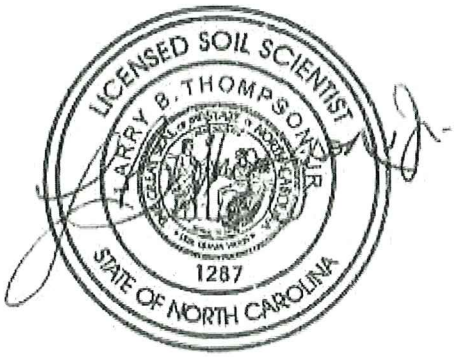
for

Lot 41 – Boulevard Acres
9000 Boyd Drive
Matthews, North Carolina

Tax Parcel # 19320210
MCGWS File # 8855B
July 27, 2020

Prepared for:

Poliana Carvalho and Samuel Decampos
7525 Briardale
Charlotte, NC 28212
980-202-8316



Prepared by:

Larry Thompson, REHS, PWS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
Fax: 704-888-6066
larry@thompsonenv.com



cc: Mecklenburg County Environmental Health

Owner must assure that all utilities are routed away from the proposed septic drainfield and tank area. These areas must be protected from traffic and any form of encroachment. Septic contractor shall be approved by Thompson Environmental Consulting, Inc.

Details

Poliana Carvalho and Samuel Decampos have contracted with Thompson Environmental Consulting, Inc. (TEC) to develop a proposal for an on-site wastewater treatment and disposal system that would serve the 4-bedroom single family residence currently under construction at 9000 Boyd Drive, Matthews, North Carolina (Lot 41 – Boulevard Acres). The property will be served by a municipal water supply.

Based upon a soils investigation performed by TEC, it has been determined that a sufficient amount of "Suitable" Group IV soils are available on this property for the installation of a Pressure-Dosed Prefabricated Permeable Block Panel System (PPBPS). The original plat for this subdivision was recorded with the Mecklenburg County Register of Deeds office on March 24, 1955 and will not require a complete repair area.

The owners would like to request MCGWS issue an Improvement Permit and Construction Authorization for a 4-bedroom residence based upon the

Location

From Charlotte, take E. Independence Boulevard 8.4 miles and turn left onto Hayden Drive. In 0.2 miles turn right onto Boyd Drive. Lot is located on the right.

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 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
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 and riser for easy access and periodic maintenance.
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 82 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 (5) 2" x 2" x 1 ¼" 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 pressure dosed pre-fabricated permeable block panel system – specifically the 16 inch high panel system manufactured by T&J Panel Wastewater Treatment System, Patent No. 4013559; telephone: 1-800-222-2577. The installer must follow the manufacturer's guidelines for installing the

T&J Panel System and should request an installation manual from the manufacturer prior to beginning construction.

4. The initial drain field consists of five (5) lateral trenches 3 feet wide by various lengths (4 at 50 Feet and 1 at 67 Feet)
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 **32 inches**. Each trench shall be placed on a minimum of 8 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. Water lines must be kept at least ten (10) feet from any portion of the septic system.
3. 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. <u>Suggestions to the Homeowner</u>

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. Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drain field.
7. 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

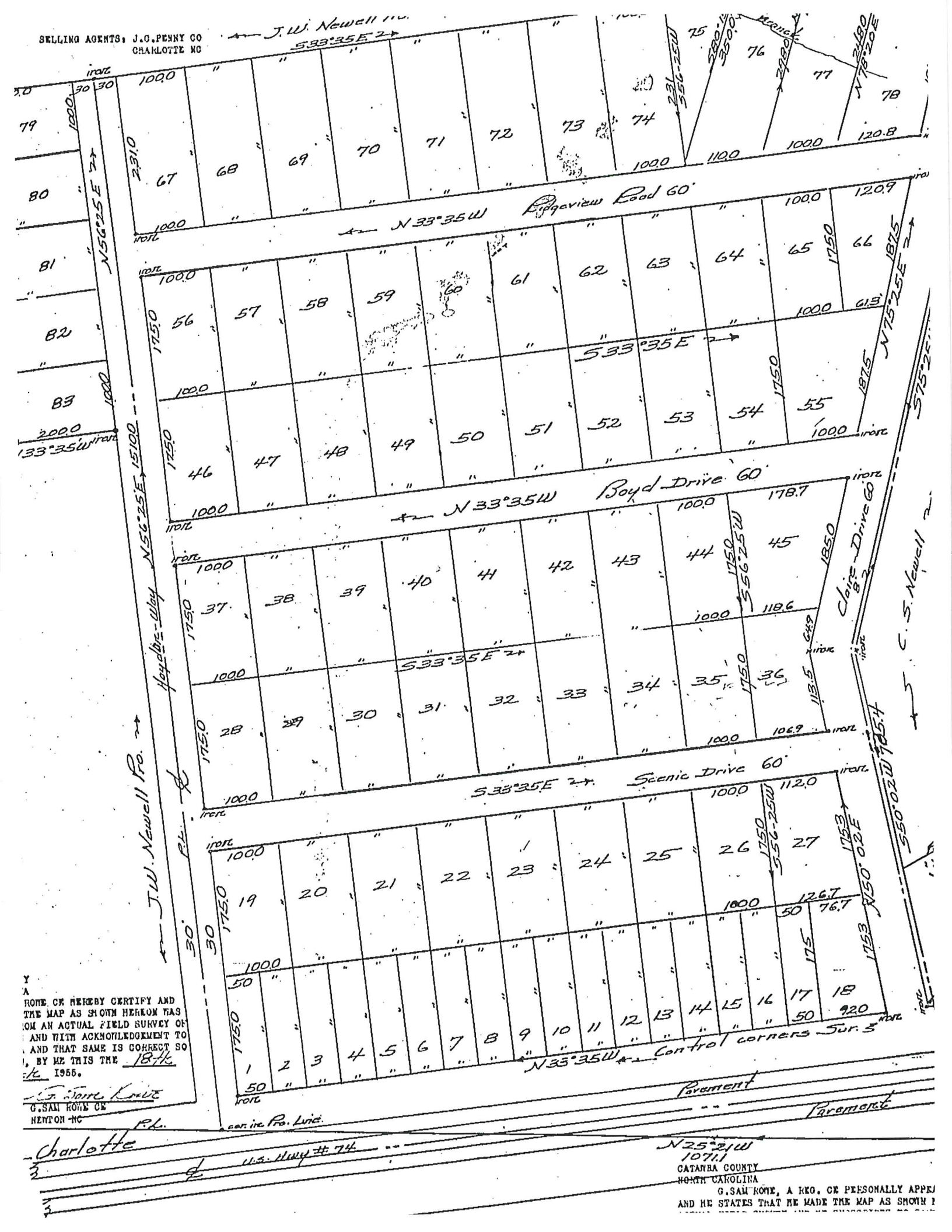
Daily Design Flow:	480 GPD – 4 bedroom house
Septic Tank Size:	1500 Gallons
Pump Tank Size:	1000 gallons
Effluent Loading Rate:	Design = 0.3 GPD per sq. ft. (50 % reduction - PPBPS)
Supply Line Length:	Approximately 82 Feet
Number and Size of Drainlines:	(5) 3' Wide x Var. Lengths 4 at 50 Feet 1 at 67 Feet
Maximum Trench Depth:	32 Inches Deep
Drainline Spacing:	8 Foot on Centers
Total Length of Drainline:	267 Feet
Total Number of Panels:	59
Lateral Hole Size:	5/32 inch
Hole Spacing:	1 per panel = 60 total
Dosing Volume:	212.40 gallons per dose
Flow Rate Through System:	24.19 gallons per minute
Elevation Head:	5 feet
Pressure Head:	2 feet
Pump Requirements:	24.19 GPM at 7 Feet TDH
Recommended Pump:	Goulds WEO3L or equiv.
Depth of Water Pumped:	10.11" check with individual tank manufacturer (1 cu. Ft. of water equals 7.5 gal.)

***See septic layout for more details.**


25'
40'
Pump Tank
Septic Tank
O
O-G
HC
HC
HC
HC
HOUSE
DRIVE
45'
45'
Pipe
Pipe
+/- 82'
O
B
SB-2
B
O
50'
O
B
62'
B
P
SB-1
50'
6'
O
P
SB-3
5'
10'
O
P
O
50'
6'
B
B
50'
LEGEND
Mecklnburg County Parcel Lines
2-Foot Contour Lines
Drainage Pipe
25-Foot Pipe Buffer
House Site
Boyd
House Corner
Pipe
Blue Flag
Orange Flag
Pink Flag

PPBPS Design Worksheet							File #:	8855B		
							Tax #:	19320210		
System Requirements							Address:	9000 Boyd Drive		
Design Flow	480	gpd						Matthews, NC 28104		
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	50	11								
Line # 3	50	11								
Line # 4	67	15								
Line # 5	50	11								
Totals	**267**	**59**								
Absorption Area										
Length (ft)	Width (ft)	Area (ft^2)								
267	2	534								
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	24.19	gpm	Total number of panels required multiplied by the orifice flow rate							
System Dose Volume	212.40	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	10.11	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


SELLING AGENTS; J.C.PENNY CO
CHARLOTTE NC
J.W. Newell
S33°35E
N33°35W Ridgeview Road 60'
N33°35W Boyd Drive 60'
S33°35E
N33°35W Hoyle Drive 60'
S33°35E Scenic Drive 60'
N33°35W Control corners Sur.5
J.W. Newell Rd.
C.S. Newell
Claire Drive 60'
Pavement
Pavement
Charlotte
U.S. Hwy #74
N25°21W
1071.1
iron
1750
231.0
N56°25E 151.00
S56°25W 178.7
S75°25E 187.5
N75°25E 187.5
S56°25W 185.0
S56°25W 175.0
N78°20E 120.8
N78°20E 120.0
N56°25E 154.4
N56°25E 187.5
S56°25W 112.0
N56°25E 175.3
S56°25W 175.0
N56°25E 175.3
S56°25W 175.0
N56°25E 175.3
S56°25W 175

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

Sheet 1 of 1
PROPERTY ID #: 19320210
COUNTY: Mecklenburg

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

OWNER: Plus Evolution General Services, Inc
ADDRESS: 9000 Boyd Drive, Matthews NC 28104
PROPOSED FACILITY: 10S PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: 9000 Boyd Drive, Matthews, NC 28107

DATE EVALUATED: 7-27-20
PROPERTY SIZE: 0.41ac
PROPERTY RECORDED: _____

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	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS 4%	0-18	SBK/cc	FR/ss/sp/sexp	—	52"	—	—	PS 0.3
		18-52	SBK/c	FI/sp/sexp					
2	LS 4%	0-48	SBK/c	FI/sp/sexp	—	48"	—	—	PS 0.3
3	LS 5%	0-8	SBK/cc	FR/ss/sp/sexp	—	48"	—	—	PS 0.3
		8-48	SBK/c	FI/sp/sexp					
4									

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

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

LICENSED SOIL SCIENTIST LARRY R. THOMPSON 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).

Updated February 2014

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).



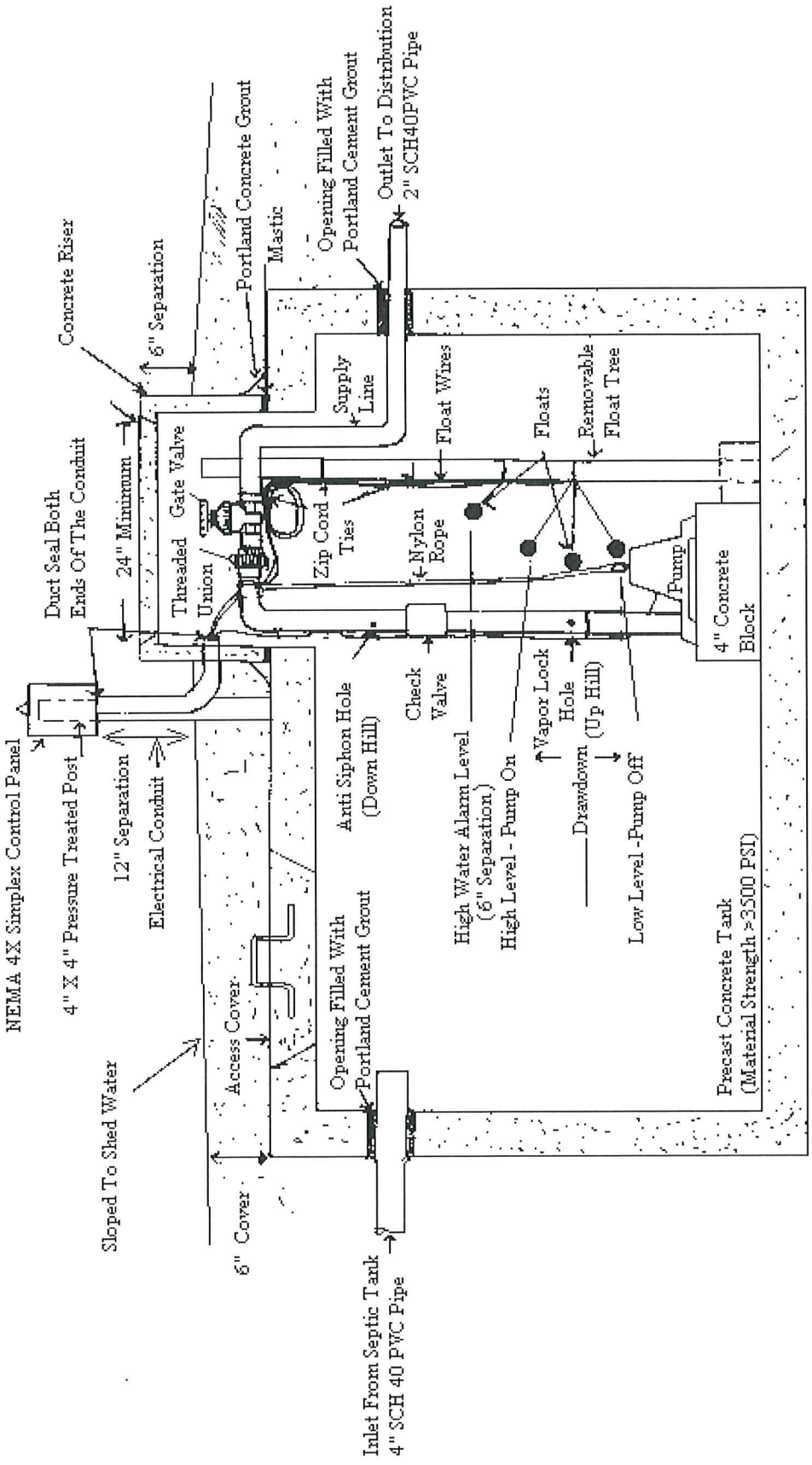
Thompson Environmental Consulting, Inc
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 19320210

Location: 9000 Boyd Drive

Date: July 27, 2020

Recommended Pump Tank Design



GOULDS PUMPS



Submersible Effluent Pump

MODEL 3885

WE Series

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump

- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104□F (40□C) continuous 140□F (60□C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES

■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.

■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

■ **Fasteners:** 300 series stainless steel.

■ Capable of running dry without damage to components.

■ Designed for continuous operation when fully submerged.

MOTORS

■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ Class B insulation on ⅓-1½ HP models.

■ Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- ⅓ and ½ HP models have NEMA three prong grounding plugs.
- ¾ HP and larger units have bare lead cord ends.

Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

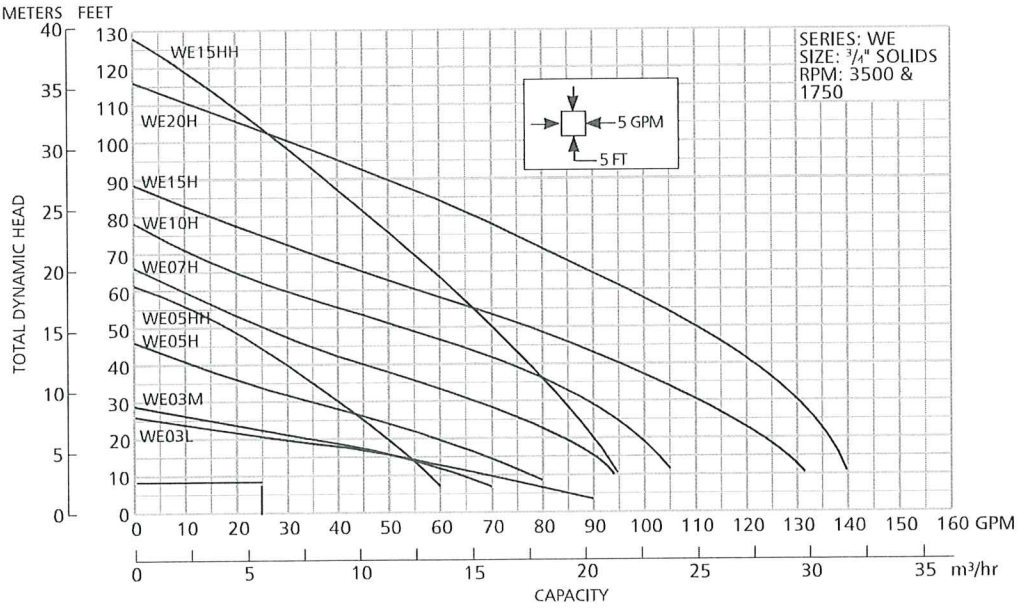
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

C SA US — Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549

Goulds Pumps is ISO 9001 Registered.



Goulds Pumps

ITT Industries

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B3885

GOULDS PUMPS

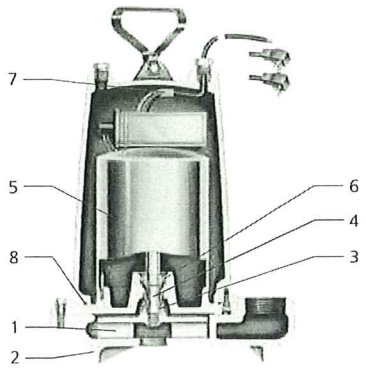
Submersible Effluent Pump

MODEL 3885

WE Series

COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring



MODELS

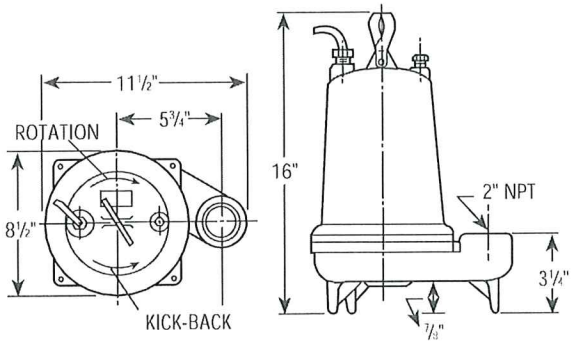
Order No.	HP	Volts	Phase	Max. Amp.	RPM	Solids	Wt. (lbs.)
WE0311L	⅓	115	1	10.7	1750	¼"	56
WE0318L		208		6.8			
WE0312L		230		4.9			
WE0311M		115		10.7			
WE0318M		208		6.8			
WE0312M		230		4.9			
WE0511H	½	115	1	14.5	3500		60
WE0518H		208		8.1			
WE0512H		230		7.3			
WE0538H		200	3	4.9			
WE0532H		230		3.3			
WE0534H		460		1.7			
WE0537H		575		1.4			
WE0511HH		115	1	14.5			
WE0518HH		208		8.1			
WE0512HH		230		7.3			
WE0538HH		200	3	4.9			
WE0532HH		230		3.6			
WE0534HH		460		1.8			
WE0537HH		575		1.5			
WE0718H	¾	208	1	11.0			70
WE0712H		230		10.0			
WE0738H		200	3	6.2			
WE0732H		230		5.4			
WE0734H		460		2.7			
WE0737H		575		2.2			
WE1018H	1	208	1	14.0			
WE1012H		230		12.5			
WE1038H		200	3	8.1			
WE1032H		230		7.0			
WE1034H		460		3.5			
WE1037H		575		2.8			
WE1518H	1½	208	1	17.5			80
WE1512H		230		15.7			
WE1538H		200	3	10.6			
WE1532H		230		9.2			
WE1534H		460		4.6			
WE1537H		575		3.7			
WE1518HH		208	1	17.5			
WE1512HH		230		15.7			
WE1538HH		200	3	10.6			
WE1532HH		230		9.2			
WE1534HH		460		4.6			
WE1537HH		575		3.7			
WE2012H	2	230	1	18.0			83
WE2038H		200	3	12.0			
WE2032H		230		11.6			
WE2034H		460		5.8			
WE2037H		575		4.7			

PERFORMANCE RATINGS (gallons per minute)

Order No.		WE03L	WE03M	WE05H	WE07H	WE10H	WE15H	WE05HH	WE15HH	WE20H
Total Head Feet of Water	HP	⅓	⅓	½	¾	1	1½	½	1½	2
	RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
	5	86	–	–	–	–	–	–	–	–
	10	70	63	78	–	–	–	58	–	–
	15	52	50	70	90	–	–	53	–	–
	20	27	35	60	83	98	123	49	90	136
	25	–	–	48	76	94	117	45	87	133
	30	–	–	35	67	88	110	40	83	130
	35	–	–	20	57	82	103	35	80	126
	40	–	–	–	45	74	95	30	77	121
	45	–	–	–	35	64	86	25	74	116
	50	–	–	–	25	53	77	–	70	110
	55	–	–	–	–	40	67	–	66	103
	60	–	–	–	–	30	56	–	63	96
	65	–	–	–	–	20	45	–	58	89
	70	–	–	–	–	–	35	–	55	81
	75	–	–	–	–	–	25	–	51	74
	80	–	–	–	–	–	–	–	47	66
	90	–	–	–	–	–	–	–	37	49
	100	–	–	–	–	–	–	–	28	30

DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Goulds Pumps

ITT Industries

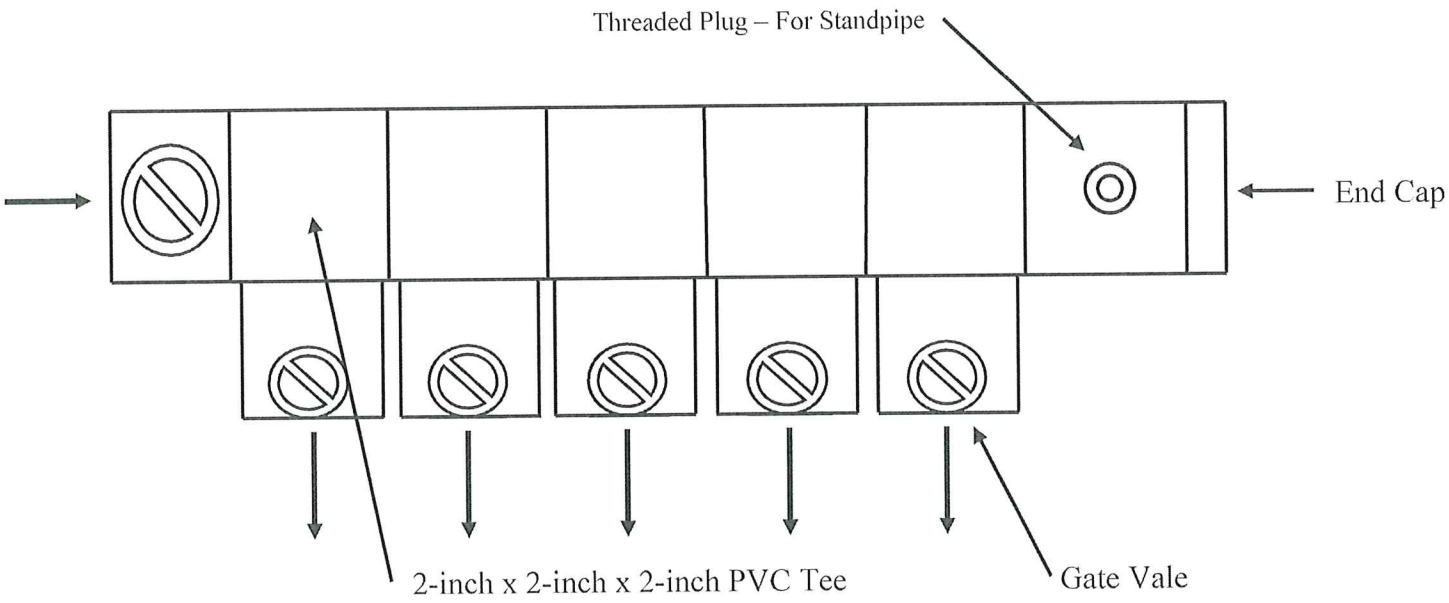
Thompson Environmental Consulting
PO Box 541
Midland, NC 28107-0541

Tax ID Number: 19320210

Location: 9000 Boyd Drive

Date: July 28, 2020

Recommended PPBPS Manifold Setup



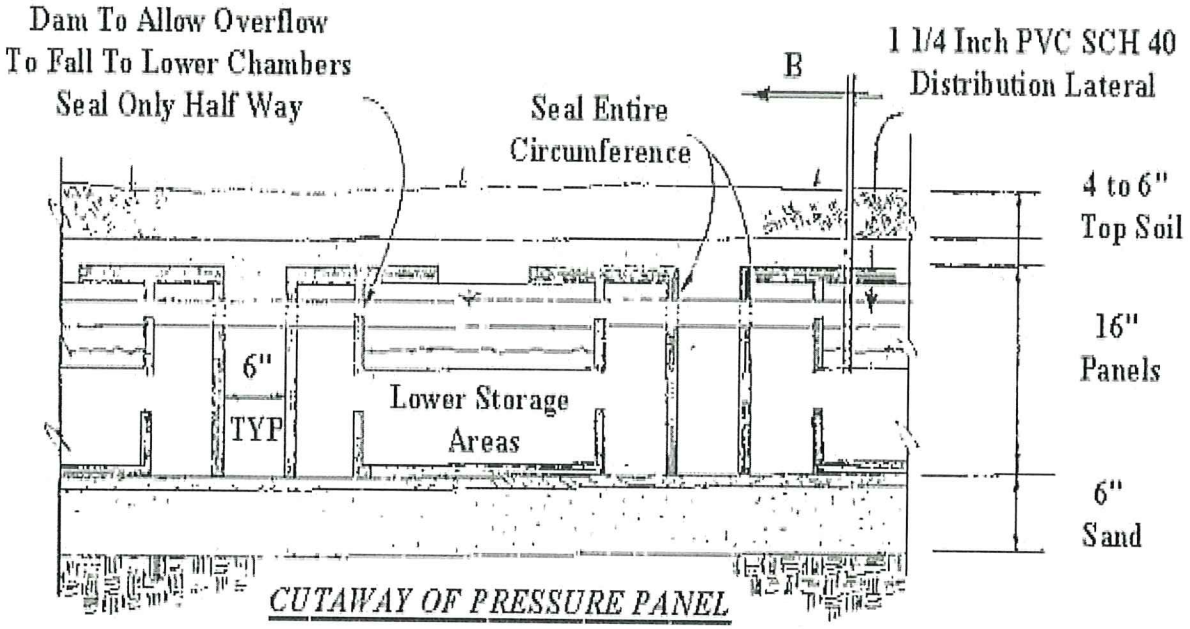
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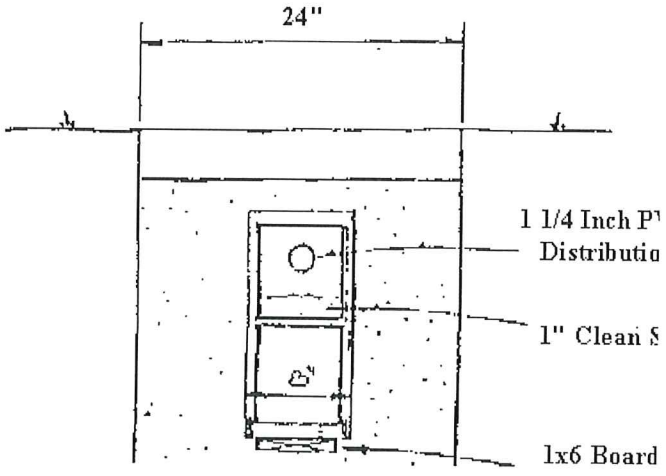
Tax ID Number: 19320210

Location: 9000 Boyd Drive

Date: July 28, 2020

PPBPS PROFILE





OFFER TO PURCHASE AND CONTRACT - VACANT LOT/LAND
[Consult "Guidelines" (form 12G) for guidance in completing this form]

NOTE: This contract is intended for unimproved real property that Buyer will purchase only for personal use and does not have immediate plans to subdivide. It should not be used to sell property that is being subdivided unless the property has been platted, properly approved and recorded with the register of deeds as of the date of the contract. If Seller is Buyer's builder and the sale involves the construction of a new single family dwelling prior to closing, use the standard Offer to Purchase and Contract—New Construction (Form 800-T) or, if the construction is completed, use the Offer to Purchase and Contract (Form 2-T) with the New Construction Addendum (Form 2A3-T).

For valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, Buyer offers to purchase and Seller upon acceptance agrees to sell and convey the Property on the terms and conditions of this Offer To Purchase and Contract and any addendum or modification made in accordance with its terms (together the "Contract").

1. TERMS AND DEFINITIONS: The terms listed below shall have the respective meaning given them as set forth adjacent to each term.

(a) **"Seller"**: Clyde H Simerly Family Trust, Kathleen K Simerly Trust

(b) **"Buyer"**: Habitat for Humanity Matthews

(c) **"Property"**: The Property shall include all that real estate described below together with all appurtenances thereto including the improvements located thereon. **NOTE:** If the Property will include a manufactured (mobile) home(s), Buyer and Seller should consider including the Manufactured (Mobile) Home provision in the Additional Provisions Addendum (Standard Form 2A11-T) with this offer.
Street Address: 9000 Boyd Dr
City: Matthews Zip: 28105
County: Mecklenburg , North Carolina
(**NOTE:** Governmental authority over taxes, zoning, school districts, utilities and mail delivery may differ from address shown.)

Legal Description: (Complete *ALL* applicable)
Plat Reference: Lot/Unit 41 , Block/Section _____ , Subdivision/Condominium Boulevard Acres
_____, as shown on Plat Book/Slide 7 at Page(s) 335
The PIN/PID or other identification number of the Property is: 193-202-10
Other description: _____
Some or all of the Property may be described in Deed Book 12757 at Page 834

(d) **"Purchase Price"**:

$ 16,000.00 paid in U.S. Dollars upon the following terms:

$ none BY DUE DILIGENCE FEE made payable to Seller by the Effective Date.

$ 500.00 BY INITIAL EARNEST MONEY DEPOSIT made payable to Escrow Agent named in Paragraph 1(f) ☐ with this offer OR ☒ delivered within five (5) days of the Effective Date of this Contract by ☐ cash ☐ personal check ☐ official bank check ☐ wire transfer.

$ _____ BY (ADDITIONAL) EARNEST MONEY DEPOSIT made payable to Escrow Agent named in Paragraph 1(f) by cash or immediately available funds such as official bank check or wire transfer to be delivered to Escrow Agent no later than _____, ***TIME BEING OF THE ESSENCE*** with regard to said date.

$ _____ BY ASSUMPTION of the unpaid principal balance and all obligations of Seller on the existing loan(s) secured by a deed of trust on the Property in accordance with the attached Loan Assumption Addendum (Standard Form 2A6-T).

$ _____ BY SELLER FINANCING in accordance with the attached Seller Financing Addendum (Standard Form 2A5-T).

$ 15,500.00 BALANCE of the Purchase Price in cash at Settlement (some or all of which may be paid with the proceeds of a new loan).

Should Buyer fail to deliver either the Due Diligence Fee or any Initial Earnest Money Deposit by their due dates, or should any check or other funds paid by Buyer be dishonored, for any reason, by the institution upon which the payment is drawn, Buyer shall have one (1) banking day after written notice to deliver cash or immediately available funds to the payee. In the event Buyer does not timely deliver cash or immediately available funds, Seller shall have the right to terminate this Contract upon written notice to Buyer.

(e) **"Earnest Money Deposit":** The Initial Earnest Money Deposit, the Additional Earnest Money Deposit and any other earnest monies paid in connection with this transaction, hereinafter collectively referred to as "Earnest Money Deposit", shall be deposited and held in escrow by Escrow Agent until Closing, at which time it will be credited to Buyer, or until this Contract is otherwise terminated. In the event: (1) this offer is not accepted; or (2) a condition of any resulting contract is not satisfied, then the Earnest Money Deposit shall be refunded to Buyer. In the event of breach of this Contract by Seller, the Earnest Money Deposit shall be refunded to Buyer upon Buyer's request, but such return shall not affect any other remedies available to Buyer for such breach. In the event of breach of this Contract by Buyer, the Earnest Money Deposit shall be paid to Seller upon Seller's request as liquidated damages and as Seller's sole and exclusive remedy for such breach, but without limiting Seller's rights under Paragraphs 2(c) and 2(d) for damage to the Property or Seller's right to retain the Due Diligence Fee. It is acknowledged by the parties that payment of the Earnest Money Deposit to Seller in the event of a breach of this Contract by Buyer is compensatory and not punitive, such amount being a reasonable estimation of the actual loss that Seller would incur as a result of such breach. The payment of the Earnest Money Deposit to Seller shall not constitute a penalty or forfeiture but actual compensation for Seller's anticipated loss, both parties acknowledging the difficulty determining Seller's actual damages for such breach. If legal proceedings are brought by Buyer or Seller against the other to recover the Earnest Money Deposit, the prevailing party in the proceeding shall be entitled to recover from the non-prevailing party reasonable attorney fees and court costs incurred in connection with the proceeding.

(f) **"Escrow Agent"** (insert name): Fran Harris Real Estate Inc

NOTE: In the event of a dispute between Seller and Buyer over the disposition of the Earnest Money Deposit held in escrow, a licensed real estate broker ("Broker") is required by state law (and Escrow Agent, if not a Broker, hereby agrees) to retain the Earnest Money Deposit in the Escrow Agent's trust or escrow account until Escrow Agent has obtained a written release from the parties consenting to its disposition or until disbursement is ordered by a court of competent jurisdiction. Alternatively, if a Broker or an attorney licensed to practice law in North Carolina ("Attorney") is holding the Earnest Money Deposit, the Broker or Attorney may deposit the disputed monies with the appropriate clerk of court in accordance with the provisions of N.C.G.S. §93A-12.

THE PARTIES AGREE THAT A REAL ESTATE BROKERAGE FIRM ACTING AS ESCROW AGENT MAY PLACE THE EARNEST MONEY DEPOSIT IN AN INTEREST BEARING TRUST ACCOUNT AND THAT ANY INTEREST EARNED THEREON SHALL BE DISBURSED TO THE ESCROW AGENT MONTHLY IN CONSIDERATION OF THE EXPENSES INCURRED BY MAINTAINING SUCH ACCOUNT AND RECORDS ASSOCIATED THEREWITH.

(g) **"Effective Date":** The date that: (1) the last one of Buyer and Seller has signed or initialed this offer or the final counteroffer, if any, and (2) such signing or initialing is communicated to the party making the offer or counteroffer, as the case may be.

(h) **"Due Diligence":** Buyer's opportunity during the Due Diligence Period to investigate the Property and the transaction contemplated by this Contract, including but not necessarily limited to the matters described in Paragraph 2 below, to decide whether Buyer, in Buyer's sole discretion, will proceed with or terminate the transaction.

(i) **"Due Diligence Fee":** A negotiated amount, if any, paid by Buyer to Seller with this Contract for Buyer's right to conduct Due Diligence during the Due Diligence Period. It shall be the property of Seller upon the Effective Date and shall be a credit to Buyer at Closing. The Due Diligence Fee shall be non-refundable except in the event of a material breach of this Contract by Seller, or if this Contract is terminated under Paragraph 6(l) or Paragraph 9, or as otherwise provided in any addendum hereto. Buyer and Seller each expressly waive any right that they may have to deny the right to conduct Due Diligence or to assert any defense as to the enforceability of this Contract based on the absence or alleged insufficiency of any Due Diligence Fee, it being the intent of the parties to create a legally binding contract for the purchase and sale of the Property without regard to the existence or amount of any Due Diligence Fee.

(j) **"Due Diligence Period":** The period beginning on the Effective Date and extending through 5:00 p.m. on 90th day ***TIME BEING OF THE ESSENCE*** with regard to said date.

(k) **"Settlement":** The proper execution and delivery to the closing attorney of all documents necessary to complete the transaction contemplated by this Contract, including the deed, settlement statement, deed of trust and other loan or conveyance documents, and the closing attorney's receipt of all funds necessary to complete such transaction.

(l) **"Settlement Date":** The parties agree that Settlement will take place on 30days after Due Diligencce prd (the "Settlement Date"), unless otherwise agreed in writing, at a time and place designated by Buyer.

Buyer initials TS _____ Seller initials _____ _____

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(m) **"Closing":** The completion of the legal process which results in the transfer of title to the Property from Seller to Buyer, which includes the following steps: (1) the Settlement (defined above); (2) the completion of a satisfactory title update to the Property following the Settlement; (3) the closing attorney's receipt of authorization to disburse all necessary funds; and (4) recordation in the appropriate county registry of the deed(s) and deed(s) of trust, if any, which shall take place as soon as reasonably possible for the closing attorney after Settlement. Upon Closing, the proceeds of sale shall be disbursed by the closing attorney in accordance with the settlement statement and the provisions of Chapter 45A of the North Carolina General Statutes. If the title update should reveal unexpected liens, encumbrances or other title defects, or if the closing attorney is not authorized to disburse all necessary funds, then the Closing shall be suspended and the Settlement deemed delayed under Paragraph 13 (Delay in Settlement/Closing).

WARNING: The North Carolina State Bar has determined that the performance of most acts and services required for a closing constitutes the practice of law and must be performed only by an attorney licensed to practice law in North Carolina. State law prohibits unlicensed individuals or firms from rendering legal services or advice. Although non-attorney settlement agents may perform limited services in connection with a closing, they may not perform all the acts and services required to complete a closing. A closing involves significant legal issues that should be handled by an attorney. Accordingly it is the position of the North Carolina Bar Association and the North Carolina Association of REALTORS® that all buyers should hire an attorney licensed in North Carolina to perform a closing.

(n) **"Special Assessments":** A charge against the Property by a governmental authority in addition to ad valorem taxes and recurring governmental service fees levied with such taxes, or by an owners' association in addition to any regular assessment (dues), either of which may be a lien against the Property. A Special Assessment may be either proposed or confirmed.

"Proposed Special Assessment": A Special Assessment that is under formal consideration but which has not been approved prior to Settlement.

"Confirmed Special Assessment": A Special Assessment that has been approved prior to Settlement whether or not it is fully payable at time of Settlement.

2. **BUYER'S DUE DILIGENCE PROCESS:**
(a) **Loan:** During the Due Diligence Period, Buyer, at Buyer's expense, shall be entitled to pursue qualification for and approval of the Loan if any.

(**NOTE:** Buyer is advised to consult with Buyer's lender prior to signing this offer to assure that the Due Diligence Period allows sufficient time for the appraisal to be completed and for Buyer's lender to provide Buyer sufficient information to decide whether to proceed with or terminate the transaction since the Loan is not a condition of the Contract.)

(b) **Property Investigation:** During the Due Diligence Period, Buyer or Buyer's agents or representatives, at Buyer's expense, shall be entitled to conduct all desired tests, surveys, appraisals, investigations, examinations and inspections of the Property as Buyer deems appropriate, including but NOT limited to the following:

(i) **Soil And Environmental:** Reports to determine whether the soil is suitable for Buyer's intended use and whether there is any environmental contamination, law, rule or regulation that may prohibit, restrict or limit Buyer's intended use.

(ii) **Septic/Sewer System:** Any applicable investigation(s) to determine: (1) the condition of an existing sewage system, (2) the costs and expenses to install a sewage system approved by an existing Improvement Permit, (3) the availability and expense to connect to a public or community sewer system, and/or (4) whether an Improvement Permit or written evaluation may be obtained from the County Health Department for a suitable ground absorption sewage system.

(iii) **Water:** Any applicable investigation(s) to determine: (1) the condition of an existing private drinking water well, (2) the costs and expenses to install a private drinking water well approved by an existing Construction Permit, (3) the availability, costs and expenses to connect to a public or community water system, or a shared private well, and/or (4) whether a Construction Permit may be obtained from the County Health Department for a private drinking water well.

(iv) **Review of Documents:** Review of the Declaration of Restrictive Covenants, Bylaws, Articles of Incorporation, Rules and Regulations, and other governing documents of any applicable owners' association and/or subdivision. If the Property is subject to regulation by an owners' association, it is recommended that Buyer review the completed Owners' Association And Addendum (Standard Form 2A12-T) provided by Seller prior to signing this offer.

(v) **Appraisals:** An appraisal of the Property.

(vi) **Survey:** A survey to determine whether the property is suitable for Buyer's intended use and the location of easements, setbacks, property boundaries and other issues which may or may not constitute title defects.

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(vii) **Zoning and Governmental Regulation:** Investigation of current or proposed zoning or other governmental regulation that may affect Buyer's intended use of the Property, adjacent land uses, planned or proposed road construction, and school attendance zones.
(viii) **Flood Hazard:** Investigation of potential flood hazards on the Property, and/or any requirement to purchase flood insurance in order to obtain the Loan.
(ix) **Utilities and Access:** Availability, quality, and obligations for maintenance of roads and utilities including electric, gas, communication services, stormwater management, and means of access to the Property and amenities.

(c) **Buyer's Obligation to Repair Damage:** Buyer shall, at Buyer's expense, promptly repair any damage to the Property resulting from any activities of Buyer and Buyer's agents and contractors, but Buyer shall not be responsible for any damage caused by accepted practices applicable to any N.C. licensed professional performing reasonable appraisals, tests, surveys, examinations and inspections of the Property. This repair obligation shall survive any termination of this Contract.

(d) **Indemnity:** Buyer will indemnify and hold Seller harmless from all loss, damage, claims, suits or costs, which shall arise out of any contract, agreement, or injury to any person or property as a result of any activities of Buyer and Buyer's agents and contractors relating to the Property except for any loss, damage, claim, suit or cost arising out of pre-existing conditions of the Property and/or out of Seller's negligence or willful acts or omissions. This indemnity shall survive this Contract and any termination hereof.

(e) **Buyer's Right to Terminate:** Buyer shall have the right to terminate this Contract for any reason or no reason, by delivering to Seller written notice of termination (the "Termination Notice") during the Due Diligence Period (or any agreed-upon written extension of the Due Diligence Period), ***TIME BEING OF THE ESSENCE***. If Buyer timely delivers the Termination Notice, this Contract shall be terminated and the Earnest Money Deposit shall be refunded to Buyer.

WARNING: If Buyer is not satisfied with the results or progress of Buyer's Due Diligence, Buyer should terminate this Contract, *prior to the expiration of the Due Diligence Period*, unless Buyer can obtain a written extension from Seller. SELLER IS NOT OBLIGATED TO GRANT AN EXTENSION. Althought Buyer may continue to investigate the Property following the expiration of the Due Diligence Period, Buyer's failure to deliver a Termination Notice to Seller prior to the expiration of the Due Diligence Period shall constitute a waiver by Buyer of any right to terminate this Contract based on any matter relating to Buyer's Due Diligence. Provided however, following the Due Diligence Period, Buyer may still exercise a right to terminate if Seller fails to materially comply with any of Seller's obligations under paragraph 6 of this Contract or for any other reason permitted under the terms of this Contract or North Carolina law.

(f) **CLOSING SHALL CONSTITUTE ACCEPTANCE OF THE PROPERTY IN ITS THEN EXISTING CONDITION UNLESS PROVISION IS OTHERWISE MADE IN WRITING.**

3. **BUYER REPRESENTATIONS:**
(a) **Loan:** Buyer ☐ does ☒ does not have to obtain a new loan in order to purchase the Property. If Buyer is obtaining a new loan, Buyer intends to obtain a loan as follows: ☐ Conventional ☐ Other: _____ loan at a ☐ Fixed Rate ☐ Adjustable Rate in the principal amount of _____ for a term of _____ year(s), at an initial interest rate not to exceed _____ % per annum (the "Loan").

NOTE: Buyer's obligations under this Contract are not conditioned upon obtaining or closing any loan. If Buyer represents that Buyer does not have to obtain a new loan in order to purchase the Property, Seller is advised, prior to signing this offer, to obtain documentation from Buyer which demonstrates that Buyer will be able to close on the Property without the necessity of obtaining a new loan.

(b) **Other Property:** Buyer ☐ does ☒ does not have to sell or lease other real property in order to qualify for a new loan or to complete purchase. (**NOTE:** If Buyer does have to sell, Buyer and Seller should consider including a Contingent Sale Addendum (Standard Form 2A2-T) with this offer.)

(c) **Performance of Buyer's Financial Obligations:** To the best of Buyer's knowledge, there are no other circumstances or conditions existing as of the date of this offer that would prohibit Buyer from performing Buyer's financial obligations in accordance with this Contract, except as may be specifically set forth herein.

Buyer initials TB _____ Seller initials _____ _____

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4. **BUYER OBLIGATIONS:**
(a) **Owners' Association Fees/Charges:** Buyer shall pay any fees required for confirming account payment information on owners' association dues or assessments for payment or proration and any charge made by the owners' association in connection with the disposition of the Property to Buyer, including any transfer and/or document fee imposed by the owners' association. Buyer shall not be responsible for fees incurred by Seller in completing the Owners' Association Disclosure and Addendum For Properties Exempt from Residential Property Disclosure Statement (Standard Form 2A12-T).

(b) **Responsibility for Proposed Special Assessments:** Buyer shall take title subject to all Proposed Special Assessments.

(c) **Responsibility for Certain Costs:** Buyer shall be responsible for all costs with respect to any loan obtained by Buyer, appraisal, title search, title insurance, recording the deed and for preparation and recording of all instruments required to secure the balance of the Purchase Price unpaid at Settlement.

5. **SELLER REPRESENTATIONS:**
(a) **Ownership:** Seller represents that Seller:
☒ has owned the Property for at least one year.
☐ has owned the Property for less than one year.
☐ does not yet own the Property.

(b) **Assessments:** To the best of Seller's knowledge there are no Proposed Special Assessments except as follows (Insert "None" or the identification of such assessments, if any): none .

Seller warrants that there are no Confirmed Special Assessments except as follows (Insert "None" or the identification of such assessments, if any): none .

(c) **Owners' Association(s) and Dues:** To best of Seller's knowledge, ownership of the Property ☐ subjects ☒ does not subject Buyer to regulation by one or more owners' association(s) and governing documents, which impose various mandatory covenants, conditions and restrictions upon the Property and Buyer's enjoyment thereof, including but not limited to obligations to pay regular assessments (dues) and Special Assessments. If there is an owners' association, then an Owners' Association Disclosure and Addendum For Properties Exempt from Residential Property Disclosure Statement (Standard Form 2A12-T) shall be completed by Seller, at Seller's expense, and must be attached as an addendum to this Contract.

(d) **Sewage System Permit:** (☐ Applicable ☒ Not Applicable) Seller warrants that the sewage system described in the Improvement Permit attached hereto has been installed, which representation survives Closing, but makes no further representations as to the system.

(e) **Private Drinking Water Well Permit:** (☐ Applicable ☒ Not Applicable) Seller warrants that a private drinking water well has been installed, which representation survives Closing, but makes no further representations as to the well. (If well installed after July 1, 2008, attach Improvement Permit hereto.)

6. **SELLER OBLIGATIONS:**
(a) **Evidence of Title:** Seller agrees to use best efforts to deliver to Buyer as soon as reasonably possible after the Effective Date, copies of all title information in possession of or available to Seller, including but not limited to: title insurance policies, attorney's opinions on title, surveys, covenants, deeds, notes and deeds of trust, leases, and easements relating to the Property. Seller authorizes: (1) any attorney presently or previously representing Seller to release and disclose any title insurance policy in such attorney's file to Buyer and both Buyer's and Seller's agents and attorneys; and (2) the Property's title insurer or its agent to release and disclose all materials in the Property's title insurer's (or title insurer's agent's) file to Buyer and both Buyer's and Seller's agents and attorneys.

(b) **Access to Property/Walk-Through Inspection:** Seller shall provide reasonable access to the Property (including working, existing utilities) through the earlier of Closing or possession by Buyer, including, but not limited to, allowing the Buyer an opportunity to conduct a final walk-through inspection of the Property. To the extent applicable, Seller shall also be responsible for timely clearing that portion of the Property required by the County to perform tests, inspections and/or evaluations to determine the suitability of the Property for a sewage system and/or private drinking water well.

(c) **Removal of Seller's Property:** Seller shall remove, by the date possession is made available to Buyer, all personal property which is not a part of the purchase and all garbage and debris from the Property.

Buyer initials TB _____ Seller initials _____ _____

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(d) **Affidavit and Indemnification Agreement:** Seller shall furnish at Settlement an affidavit(s) and indemnification agreement(s) in form satisfactory to Buyer and Buyer's title insurer, if any, executed by Seller and any person or entity who has performed or furnished labor, services, materials or rental equipment to the Property within 120 days prior to the date of Settlement and who may be entitled to claim a lien against the Property as described in N.C.G.S. §44A-8 verifying that each such person or entity has been paid in full and agreeing to indemnify Buyer, Buyer's lender(s) and Buyer's title insurer against all loss from any cause or claim arising therefrom.

(e) **Designation of Lien Agent, Payment and Satisfaction of Liens:** If required by N.C.G.S. §44A-11.1, Seller shall have designated a Lien Agent, and Seller shall deliver to Buyer as soon as reasonably possible a copy of the appointment of Lien Agent. All deeds of trust, deferred ad valorem taxes, liens and other charges against the Property, not assumed by Buyer, must be paid and satisfied by Seller prior to or at Settlement such that cancellation may be promptly obtained following Closing. Seller shall remain obligated to obtain any such cancellations following Closing.

(f) **Good Title, Legal Access:** Seller shall execute and deliver a GENERAL WARRANTY DEED for the Property in recordable form no later than Settlement, which shall convey fee simple marketable and insurable title, without exception for mechanics' liens, and free of any other liens, encumbrances or defects, including those which would be revealed by a current and accurate survey of the Property, except: ad valorem taxes for the current year (prorated through the date of Settlement); utility easements and unviolated covenants, conditions or restrictions that do not materially affect the value of the Property; and such other liens, encumbrances or defects as may be assumed or specifically approved by Buyer in writing. The Property must have legal access to a public right of way.

(**NOTE**: Buyer's failure to terminate this Contract prior to the expiration of the Due Diligence Period as a result of any encumbrance or defect that is or would have been revealed be a title examination of the Property or a current and accurate survey shall not relieve Seller of any obligation under this subparagraph)

(**NOTE:** If any sale of the Property may be a "short sale," consideration should be given to attaching a Short Sale Addendum (Standard Form 2A14-T) as an addendum to this Contract.)

(g) **Deed, Excise Taxes:** Seller shall pay for preparation of a deed and all other documents necessary to perform Seller's obligations under this Contract, and for state and county excise taxes required by law. The deed is to be made to: Habitat for Hamanity of Matthews.

(h) **Agreement to Pay Buyer Expenses:** Seller shall pay at Settlement $ none toward any of Buyer's expenses associated with the purchase of the Property, less any portion disapproved by Buyer's lender.

NOTE: Examples of Buyer's expenses associated with the purchase of the Property include, but are not limited to, discount points, loan origination fees, appraisal fees, attorney's fees, inspection fees, and "pre-paids" (taxes, insurance, owners' association dues, etc.).

(i) **Payment of Confirmed Special Assessments:** Seller shall pay all Confirmed Special Assessments, if any, provided that the amount thereof can be reasonably determined or estimated.

(j) **Late Listing Penalties:** All property tax late listing penalties, if any, shall be paid by Seller.

(k) **Owners' Association Disclosure and Addendum For Properties Exempt from Residential Property Disclosure Statement** (Standard Form 2A12-T): If applicable, Seller shall provide the completed Owners' Association Disclosure and Addendum For Properties Exempt from Residential Property Disclosure Statement to Buyer on or before the Effective Date.

(l) **Seller's Failure to Comply or Breach:** If Seller fails to materially comply with any of Seller's obligations under this Paragraph 6 or Seller materially breaches this Contract, and Buyer elects to terminate this Contract as a result of such failure or breach, then the Earnest Money Deposit and the Due Diligence Fee shall be refunded to Buyer and Seller shall reimburse to Buyer the reasonable costs actually incurred by Buyer in connection with Buyer's Due Diligence without affecting any other remedies. If legal proceedings are brought by Buyer against the Seller to recover the Earnest Money Deposit, the Due Diligence Fee and/or the reasonable costs actually incurred by Buyer in connection with Buyer's Due Diligence, the prevailing party in the proceeding shall be entitled to recover from the non-prevailing party reasonable attorney fees and court costs incurred in connection with the proceeding.

7. **PRORATIONS AND ADJUSTMENTS:** Unless otherwise provided, the following items shall be prorated through the date of Settlement and either adjusted between the parties or paid at Settlement:

(a) **Taxes on Real Property:** Ad valorem taxes and recurring governmental service fees levied with such taxes on real property shall be prorated on a calendar year basis;

(b) **Rents:** Rents, if any, for the Property;

(c) **Dues:** Owners' association regular assessments (dues) and other like charges.

8. **CONDITION OF PROPERTY AT CLOSING:** Buyer's obligation to complete the transaction contemplated by this Contract shall be contingent upon the Property being in substantially the same or better condition at Closing as on the date of this offer, reasonable wear and tear excepted.

9. **RISK OF LOSS:** The risk of loss or damage by fire or other casualty prior to Closing shall be upon Seller. If the improvements on the Property are destroyed or materially damaged prior to Closing, Buyer may terminate this Contract by written notice delivered to Seller or Seller's agent and the Earnest Money Deposit and any Due Diligence Fee shall be refunded to Buyer. In the event Buyer does NOT elect to terminate this Contract, Buyer shall be entitled to receive, in addition to the Property, any of Seller's insurance proceeds payable on account of the damage or destruction applicable to the Property being purchased. Seller is advised not to cancel existing insurance on the Property until after confirming recordation of the deed.

10. **DELAY IN SETTLEMENT/CLOSING:** Absent agreement to the contrary in this Contract or any subsequent modification thereto, if a party is unable to complete Settlement by the Settlement Date but intends to complete the transaction and is acting in good faith and with reasonable diligence to proceed to Settlement ("Delaying Party"), and if the other party is ready, willing and able to complete Settlement on the Settlement Date ("Non-Delaying Party") then the Delaying Party shall give as much notice as possible to the Non-Delaying Party and closing attorney and shall be entitled to a delay in Settlement. If the parties fail to complete Settlement and Closing within fourteen (14) days of the Settlement Date (including any amended Settlement Date agreed to in writing by the parties) or to otherwise extend the Settlement Date by written agreement, then the Delaying Party shall be in breach and the Non-Delaying Party may terminate this Contract and shall be entitled to enforce any remedies available to such party under this Contract for the breach.

11. **POSSESSION:** Unless otherwise provided herein, possession shall be delivered at Closing as defined in Paragraph 1(m). No alterations, excavations, tree or vegetation removal or other such activities may be done before possession is delivered.

12. **OTHER PROVISIONS AND CONDITIONS:** CHECK ALL STANDARD ADDENDA THAT MAY BE A PART OF THIS CONTRACT, IF ANY, AND ATTACH HERETO. ITEMIZE ALL OTHER ADDENDA TO THIS CONTRACT, IF ANY, AND ATTACH HERETO.

(**NOTE:** UNDER NORTH CAROLINA LAW, REAL ESTATE BROKERS ARE NOT PERMITTED TO DRAFT CONDITIONS OR CONTINGENCIES TO THIS CONTRACT.)

☒ Additional Provisions Addendum (Form 2A11-T)
☐ Back-Up Contract Addendum (Form 2A1-T)
☐ Contingent Sale Addendum (Form 2A2-T)
☐ Loan Assumption Addendum (Form 2A6-T)
☐ Owners' Association Disclosure And Addendum For Properties Exempt from Residential Property Disclosure Statement (Form 2A12-T)
☐ Seller Financing Addendum (Form 2A5-T)
☐ Short Sale Addendum (Form 2A14-T)

☒ OTHER: Lot must be permit-able for a standard design septic tank drain field for minimum of 4 bedrooms

13. **ASSIGNMENTS:** This Contract may not be assigned without the written consent of all parties except in connection with a tax-deferred exchange, but if assigned by agreement, then this Contract shall be binding on the assignee and assignee's heirs and successors.

14. **TAX-DEFERRED EXCHANGE:** In the event Buyer or Seller desires to effect a tax-deferred exchange in connection with the conveyance of the Property, Buyer and Seller agree to cooperate in effecting such exchange; provided, however, that the exchanging party shall be responsible for all additional costs associated with such exchange, and provided further, that a non-exchanging party shall not assume any additional liability with respect to such tax-deferred exchange. Buyer and Seller shall execute such additional documents, including assignment of this Contract in connection therewith, at no cost to the non-exchanging party, as shall be required to give effect to this provision.

Buyer initials TJB _____ Seller initials _____ _____

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15. **PARTIES:** This Contract shall be binding upon and shall inure to the benefit of Buyer and Seller and their respective heirs, successors and assigns. As used herein, words in the singular include the plural and the masculine includes the feminine and neuter genders, as appropriate.

16. **SURVIVAL:** If any provision herein contained which by its nature and effect is required to be observed, kept or performed after the Closing, it shall survive the Closing and remain binding upon and for the benefit of the parties hereto until fully observed, kept or performed.

17. **ENTIRE AGREEMENT:** This Contract contains the entire agreement of the parties and there are no representations, inducements or other provisions other than those expressed herein. All changes, additions or deletions hereto must be in writing and signed by all parties. Nothing contained herein shall alter any agreement between a REALTOR® or broker and Seller or Buyer as contained in any listing agreement, buyer agency agreement, or any other agency agreement between them.

18. **NOTICE:** Any notice or communication to be given to a party herein may be given to the party or to such party's agent. Any written notice or communication in connection with the transaction contemplated by this Contract may be given to a party or a party's agent by sending or transmitting it to any mailing address, e-mail address or fax number set forth in the "Notice Information" section below. Seller and Buyer agree that the "Notice Information" and "Escrow Acknowledgment" sections below shall not constitute a material part of this Contract, and that the addition or modification of any information therein shall not constitute a rejection of an offer or the creation of a counteroffer.

19. **EXECUTION:** This Contract may be signed in multiple originals or counterparts, all of which together constitute one and the same instrument, and the parties adopt as their seals the word "SEAL" beside their signatures below.

20. **COMPUTATION OF DAYS:** Unless otherwise provided, for purposes of this Contract, the term "days" shall mean consecutive calendar days, including Saturdays, Sundays, and holidays, whether federal, state, local or religious. For the purposes of calculating days, the count of "days" shall begin on the day following the day upon which any act or notice as provided in this Contract was required to be performed or made.

THE NORTH CAROLINA ASSOCIATION OF REALTORS®, INC. AND THE NORTH CAROLINA BAR ASSOCIATION MAKE NO REPRESENTATION AS TO THE LEGAL VALIDITY OR ADEQUACY OF ANY PROVISION OF THIS FORM IN ANY SPECIFIC TRANSACTION. IF YOU DO NOT UNDERSTAND THIS FORM OR FEEL THAT IT DOES NOT PROVIDE FOR YOUR LEGAL NEEDS, YOU SHOULD CONSULT A NORTH CAROLINA REAL ESTATE ATTORNEY BEFORE YOU SIGN IT.

This offer shall become a binding contract on the Effective Date.

Date: 11/12/13	Date: _____
Buyer _____ (SEAL)	Seller _____ (SEAL)
Habitat for Humanity Matthews	Clyde H Simerly Family Trust
Date: _____	Date: _____
Buyer _____ (SEAL)	Seller _____ (SEAL)
	Kathleen K Simerly Trust
Date: _____	Date: _____
Buyer _____ (SEAL)	Seller _____ (SEAL)

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NOTICE INFORMATION

(**NOTE:** INSERT THE ADDRESS AND/OR ELECTRONIC DELIVERY ADDRESS EACH PARTY AND AGENT APPROVES FOR THE RECEIPT OF ANY NOTICE CONTEMPLATED BY THIS CONTRACT. INSERT "N/A" FOR ANY WHICH ARE NOT APPROVED.)

BUYER NOTICE ADDRESS:

Mailing Address: 136 E. Charles St, Matthews, NC 28105
Buyer Fax#: (704) 849-2509
Buyer E-mail: terrell@habitatmatthews.org

SELLER NOTICE ADDRESS:

Mailing Address: _____
Seller Fax#: _____
Seller E-mail: _____

SELLING AGENT NOTICE ADDRESS:

Firm Name: Land Matters
Acting as ☒ Buyer's Agent ☐ Seller's (sub) Agent ☐ Dual Agent
Mailing Address: PO Box 687, Pineville, NC 28134

Individual Selling Agent: Karla Hammer Knotts
☐ Acting as a Designated Dual Agent (check only if applicable)
License #: 118550
Selling Agent Phone#: (704) 542-5486
Selling Agent Fax#: (704) 542-2703
Selling Agent E-mail: karlahk@knottsdevelopment.net

LISTING AGENT NOTICE ADDRESS:

Firm Name: Fran Harris Real Estate
Acting as ☐ Seller's Agent ☐ Dual Agent
Mailing Address: 7521 Matthews-Mint Hill Rd, Mint Hill, NC 28227
Individual Listing Agent: Jeff Hightower
☐ Acting as a Designated Dual Agent (check only if applicable)
License #: 242859
Listing Agent Phone#: (704) 241-1267
Listing Agent Fax#: (704) 602-0519
Listing Agent E-mail: JHightower2@carolina.rr.com

ESCROW ACKNOWLEDGMENT OF INITIAL EARNEST MONEY DEPOSIT

Property: 9000 Boyd Dr, Matthews, 28105

Seller: Clyde H Simerly Family Trust, Kathleen K Simerly Trust

Buyer: Habitat for Humanity Matthews

Escrow Agent acknowledges receipt of the Initial Earnest Money Deposit and agrees to hold and disburse the same in accordance with the terms hereof.

Date _____

Firm: Fran Harris Real Estate Inc

By: _____
(Signature)

_____
(Print name)

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ADDITIONAL PROVISIONS ADDENDUM

Property: 9000 Boyd Dr, Matthews, 28105

Seller: Clyde H Simerly Family Trust, Kathleen K Simerly Trust

Buyer: Habitat for Humanity Matthews

This Addendum is attached to and made a part of the Offer to Purchase and Contract ("Contract") between Seller and Buyer for the Property.

NOTE: All of the following provisions which are marked with an "X" shall apply to the attached Offer to Purchase and Contract or Offer to Purchase and Contract - Vacant Lot/Land ("Contract"). Those provisions marked "N/A" shall not apply.

1. _____ **EXPIRATION OF OFFER:** This offer shall expire unless unconditional acceptance is delivered to Buyer on or before _____ ☐ AM ☐ PM, on _____, ***TIME BEING OF THE ESSENCE***, or until withdrawn by Buyer, whichever occurs first.

2. X (To be used with Offer to Purchase and Contract Form 2-T only) **SEPTIC SYSTEM INSTALLATION/ MODIFICATION:** As a part of the Buyer's Due Diligence, Buyer intends to obtain an Improvement Permit or written evaluation from the County Health Department ("County") for a (check only ONE) ☒ conventional or ☐ other _____ ground absorption sewage system for a 4 bedroom home. Except for the costs for clearing the Property, all costs and expenses of obtaining such Permit or written evaluation shall be borne by Buyer unless otherwise agreed. Seller shall be responsible for clearing that portion of the Property required by the County to perform its tests and/or inspections by no later than November 30, 2013 (**NOTE:***Insert a date that will allow testing to be completed prior to the end of the Due Diligence Period.)*

3. _____ **RENTAL/INCOME/INVESTMENT PROPERTY:** The Property shall be conveyed subject to existing leases and/or rights of tenants. Seller shall deliver to Buyer on or before _____, true and complete copies of all existing leases, rental agreements, outstanding tenant notices, written statements of all oral tenant agreements, statement of all tenant's deposits, uncured defaults by Seller or tenants, and claims made by or to tenants, if any *(***NOTE:***Insert a date that will allow review to be completed prior to the end of the Due Diligence Period).* **NOTE:** DO NOT USE THIS PROVISION FOR PROPERTY SUBJECT TO THE NORTH CAROLINA VACATION RENTAL ACT. A VACATION RENTAL ADDENDUM SHOULD BE USED IN SUCH CASES.

4. _____ **AGREED-UPON REPAIRS AND/OR IMPROVEMENTS:** Seller agrees, prior to Settlement Date and at Seller's expense, to complete the following items: _____
_____
_____
_____
_____
_____
_____
_____
_____.
Buyer shall have the right to verify, prior to Settlement, that the above items have been completed in a good and workmanlike manner.

5. _____ **MANUFACTURED (MOBILE) HOME:** The Property shall include the following manufactured (mobile) home(s) located on the Property: VIN(s): _____ or ☐ VIN(s) unknown Other description (*year, model, etc.*): _____
_____

IN THE EVENT OF A CONFLICT BETWEEN THIS ADDENDUM AND THE CONTRACT, THIS ADDENDUM SHALL CONTROL, EXCEPT THAT IN THE CASE OF SUCH A CONFLICT AS TO THE DESCRIPTION OF THE PROPERTY OR THE IDENTITY OF THE BUYER OR SELLER, THE CONTRACT SHALL CONTROL.

THE NORTH CAROLINA ASSOCIATION OF REALTORS®, INC. AND THE NORTH CAROLINA BAR ASSOCIATION MAKE NO REPRESENTATION AS TO THE LEGAL VALIDITY OR ADEQUACY OF ANY PROVISION OF THIS FORM IN ANY SPECIFIC TRANSACTION. IF YOU DO NOT UNDERSTAND THIS FORM OR FEEL THAT IT DOES NOT PROVIDE FOR YOUR LEGAL NEEDS, YOU SHOULD CONSULT A NORTH CAROLINA REAL ESTATE ATTORNEY BEFORE YOU SIGN IT.

Date: 11/12/13

Buyer _____ (SEAL)
Habitat for Humanity Matthews

Date: _____

Buyer _____ (SEAL)

Date: _____

Buyer _____ (SEAL)

Date: _____

Seller _____ (SEAL)
Clyde H Simerly Family Trust

Date: _____

Seller _____ (SEAL)
Kathleen K Simerly Trust

Date: _____

Seller _____ (SEAL)

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Marshall Hooks Dr

THOMPSON ENVIRONMENTAL CONSULTING, INC.
WATER ♦ WASTEWATER ♦ WETLANDS

January 14, 2021

Braedon Shelton, REHS
Mecklenburg County Groundwater and Wastewater Services
700 N. Tryon Street
Charlotte, NC 28202

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 installed for 900 Boyd Drive, Matthews, NC and I am satisfied that it meets the intent of the original proposal provided 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., 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

MECKLENBURG COUNTY
Health Department

January 8, 2014

Mr Troy Pruitt
PO Box 2008
Matthews, NC 28106

Re: Application for improvement permit for
Property Site: 9000 Boyd Dr, Matthews, NC 28105
Health Department file number: **8855B**

Dear Property Owner or Owner's Agent:

The Mecklenburg County Health Department, Environmental Health Division on **December 19, 2014** evaluated the above-referenced property at the site designated on the plat that accompanied your improvement permit application. According to your application the site is to serve a Four (4) Bedroom, with a design wastewater flow of 480 gallons per day. The evaluation was done in accordance with the laws and rules governing wastewater systems in North Carolina General Statute 130A-333 and related statutes and Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rule .l900 and related rules.

Based on the criteria set out in Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rules .1940 through .1948, the evaluation indicated that the site is **UNSUITABLE for** a ground absorption sewage system. Therefore, your request for an improvement permit is **DENIED.** A copy of the site evaluation is enclosed. The site is unsuitable based on the following:

- ☐ Unsuitable soil topography and/or landscape position (Rule .1940)
- ☐ Unsuitable soil characteristics (structure or clay mineralogy) (Rule .1941)
- ☐ Unsuitable soil wetness condition (Rule .1942)
- ☐ Unsuitable soil depth (Rule .1943)
- ☐ Presence of restrictive horizon (Rule .1944)
- ☒ Insufficient space for septic system and repair area (Rule .1945)
- ☐ Unsuitable for meeting required setbacks (Rule .1950)
- ☐ Other (Rule .1946)

These severe soil or site limitations could cause premature system failure, leading to the discharge of untreated sewage on the ground surface, into surface waters, directly to ground water or inside your structure.

The site evaluation included consideration of possible site modifications, and modified, innovative or alternative systems. However, the Health Department has determined that none of the above options will overcome the severe conditions on this site. A possible option might be a system designed to dispose of sewage to another area of suitable soil or off-site to additional property.

For the reasons set out above, the property is currently classified **UNSUITABLE,** and an improvement permit shall not be issued for this site in accordance with Rule .1948 (c).

)wever, the site classified as **UNSUITABLE** may be classified as **PROVISIONALLY SUITABLE** if :itten documentation is provided that meets the requirements of Rule .1948(d). A copy of this rule is ıclosed. You may hire a consultant to assist you if you wish to try to develop a plan under which your ıte could be reclassified as **PROVISIONALLY SUITABLE.**

You have a right to an informal review of this decision. You may request an informal review by the soil scientist or environmental health supervisor at the local health department. You may also request an informal review by the N.C. Department of Health and Human Services regional soil specialist. A request for informal review must be made in writing to the local health department.

You also have a right to a formal appeal of this decision. To pursue a formal appeal, you must file a petition for a contested case hearing with the Office of Administrative Hearings, 6714 Mail Center, Raleigh, NC 27699-6714. To get a copy of a petition form, you may write the Office of Administrative Hearings or call the office at (919) 431-3000 or from the OAH web site at http://www.ncoah.com/forms.html. The petition for a contested case hearing must be filed in accordance with the provision of North Carolina General Statutes 130A-24 and 150B-23 and all other applicable provisions of Chapter 150B. N. C. General Statue 130A-335(g) provides that your hearing would be held in the county where your property is located.

Please note: If you wish to pursue a formal appeal, you must file the petition form with the Office of Administrative Hearings **WITHIN 30 DAYS OF THE DATE OF THIS LETTER.** The date of this letter is **January 8, 2014**. Meeting the 30-day deadline is critical to your right to a formal appeal. Beginning a formal appeal within 30 days will not interfere with any informal review that you might request. Do not wait for the outcome of any informal review if you wish to file a formal appeal.

If you file a petition for a contested case hearing with the Office of Administrative Hearings, you are required by law (N.C. General Statute 150B-23) to send a copy of your petition to the N.C. Department of Health and Human Services. Send the copy to: Office of General Counsel, N.C. Department of Health and Human Services, 2001 Mail Service Center, Raleigh, N.C. 27699-2001. Do not serve the petition on your local health department. Sending a copy of your petition to the local health department will not satisfy the legal requirement in N.C. General Statute 150B-23 that you send a copy to the Office of General Counsel, N. C. Department of Health and Human Services.

You may call or write the local health department if you need any additional information or assistance.

Sincerely,

Bradley W. Hallman, REHS
Authorized Agent - DHHS

Encl: (2)

8855B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

App # 6566

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: 19320210
STREET ADDRESS: 9000 Boyd Drive
CITY: Matthews
STATE: NC ZIP: 28105
SUBDIVISION NAME: _____
LOT #: _____ LOT SIZE (acres): 16600

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: 1200
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 4

FOUNDATION TYPE:
⊘ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
○ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

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

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

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

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

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

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

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

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

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

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

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** 12/12/13 ☐ N/A

12. **PROPERTY OWNER:**

NAME: Clyde Simerly
ADDRESS: 9008 Boyd Dr.
CITY: Matthews
STATE: NC ZIP: 28105
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

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

NAME: Troy Pruitt
ADDRESS: ~~2~~ P.O. Box 2008
CITY: Matthews
STATE: NC ZIP: 28106
WORK PHONE: (704) 847-4266
MOBILE PHONE: (843) 718-6727
FAX: (704) 849-2509
E-MAIL: troy@habitatmatthews.org

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.

_____ 11-27-13

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

---

OFFICE USE ONLY

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

SEPTIC APPLICATION FEE RECEIVED: $ 250 DATE FEE RECEIVED: 11/27/13

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

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: 8855B

APPLICATION ID NUMBER ASSIGNED: 6566

COMMENTS:

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

Revised on: 12/15/10

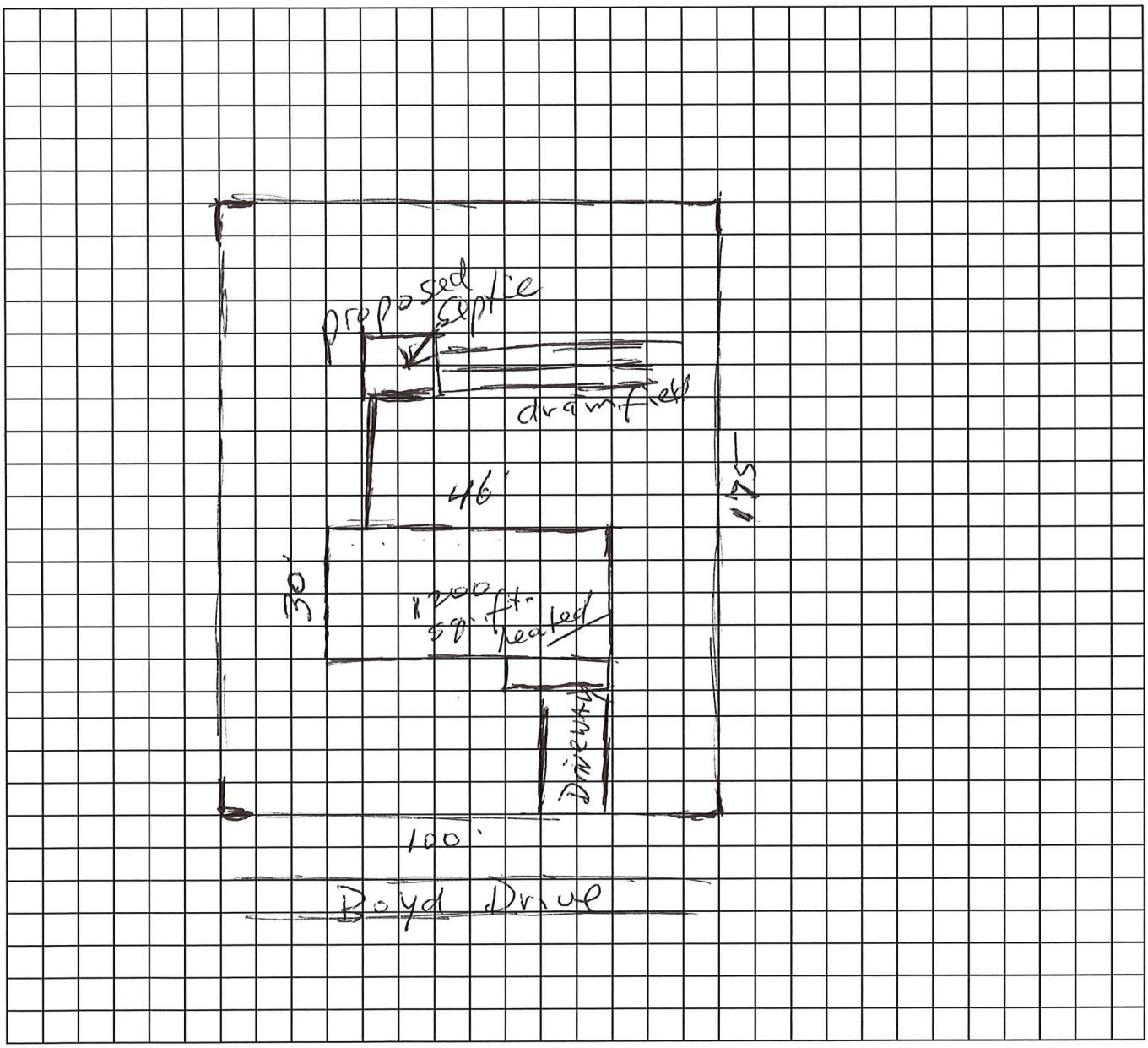
File #: _____

PROPOSED PLOT PLAN

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

Street Address: 9000 Boyd Drive Tax Parcel #: 19320210

Subdivision Name: _____ Lot #: _____



Tony [signature]
Property Owner's or Owner's Legal Representative Signature

11-27-13
Date

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

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

Sheet: 1 of 2
Property ID: 193-202-10
Lot #: NA
File #: 8855B
AppID: 6566

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Clyde Simerly
Applicant: Troy Pruitt
Address: 9008 Boyd Dr., Matthews, NC 28105
Date Evaluated: 12/4/2013
Proposed Facility: 4BR House
Design Flow (.1949): 480 GPD
Property Size: 16,600 sq. ft.
Location of Site: 9000 Boyd Dr, Matthews, NC 28105
Property Recorded: Unknown
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	LS 5%	0 - 20	wfsbk CL	FR SEXP	>50"	50	NA	NA		PS IV 0.35	36"
		20 - 50	mfsbk CL	FR SEXP							
Boring #2	LS 5%	0 - 26	mfsbk CL	FR SEXP	>50"	50	NA	NA		PS IV 0.3	36"
		26 - 50	mmsbk C	FR SEXP							
Boring #3	R 2%	0 - 2	gr L	FR SEXP	2 chroma @ 46"	49	NA	NA		PS IV 0.3	34"
		2 - 49	mfsbk C	FR SEXP							

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

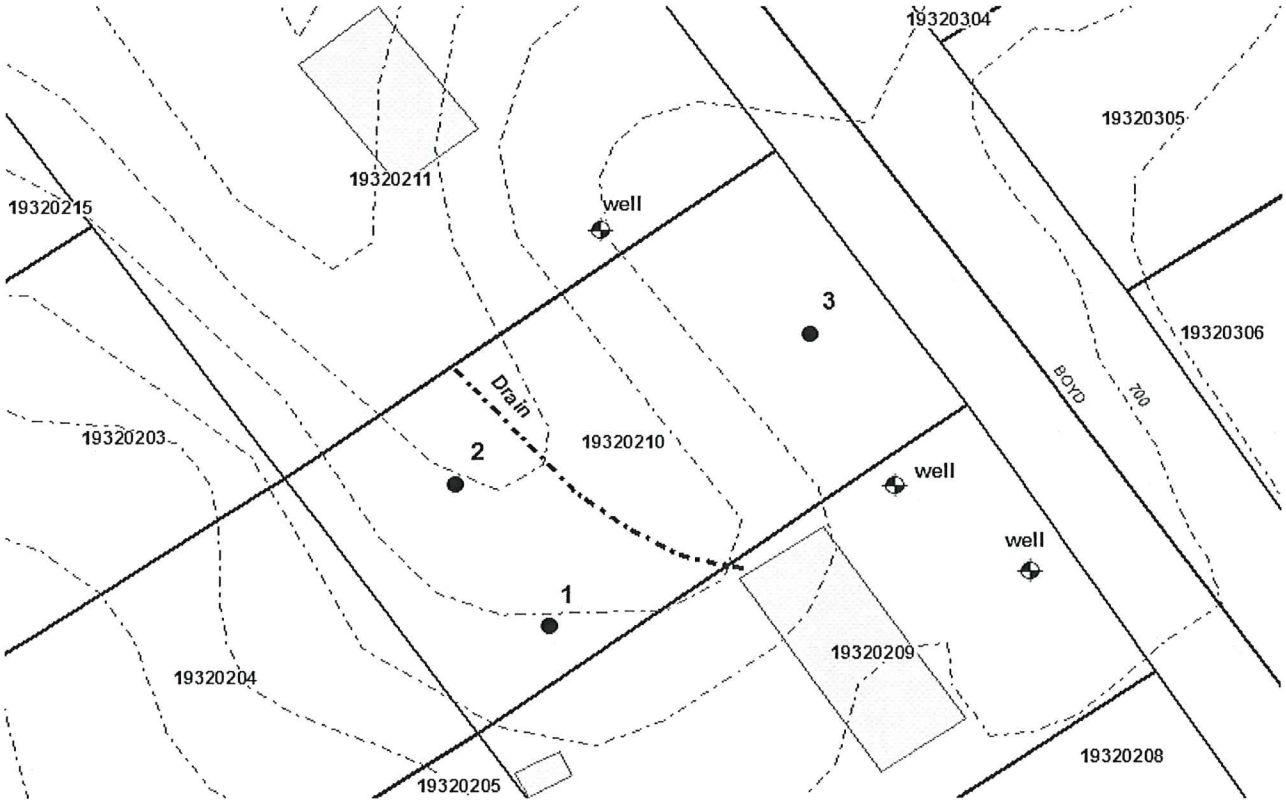
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS:

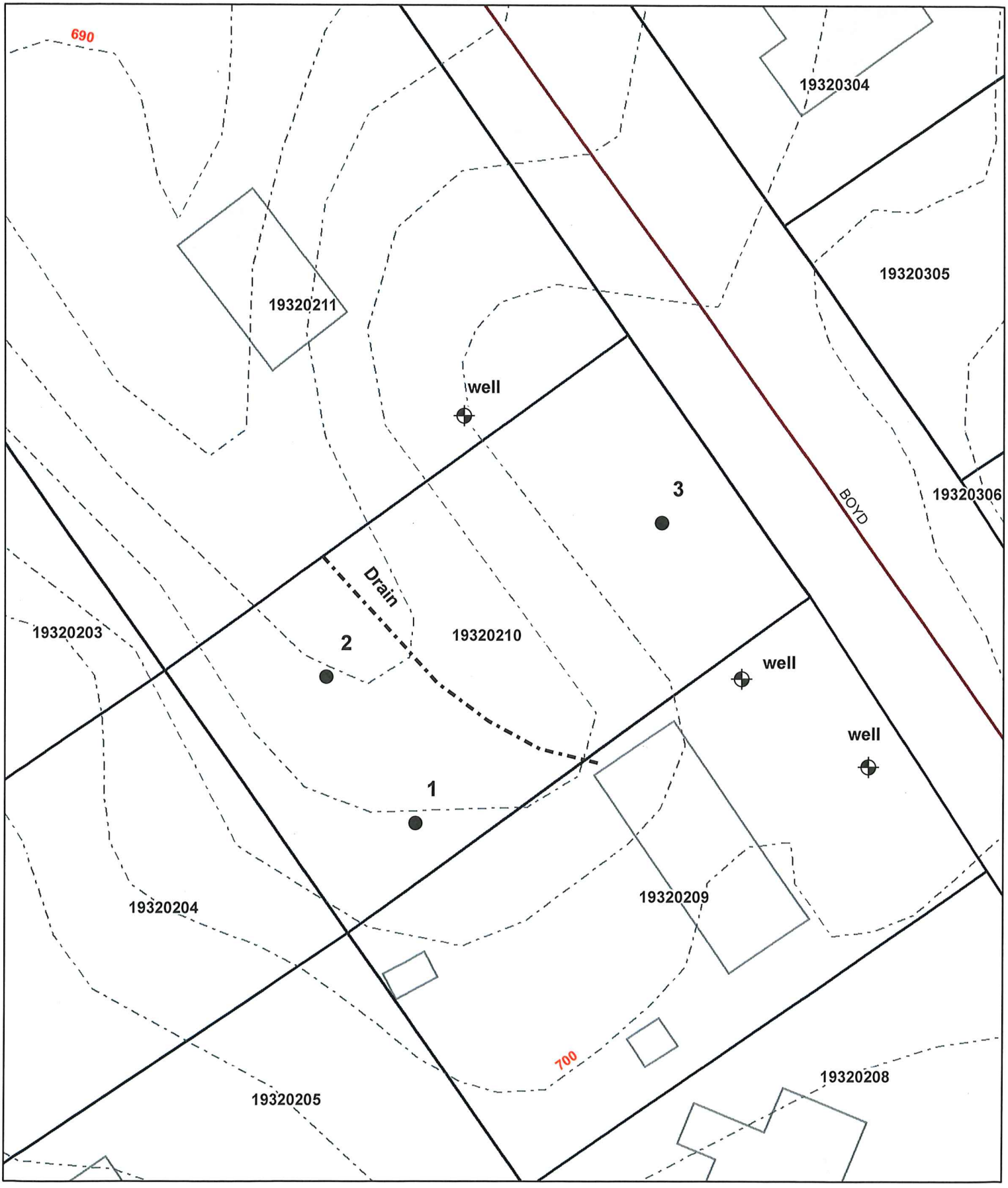
Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
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



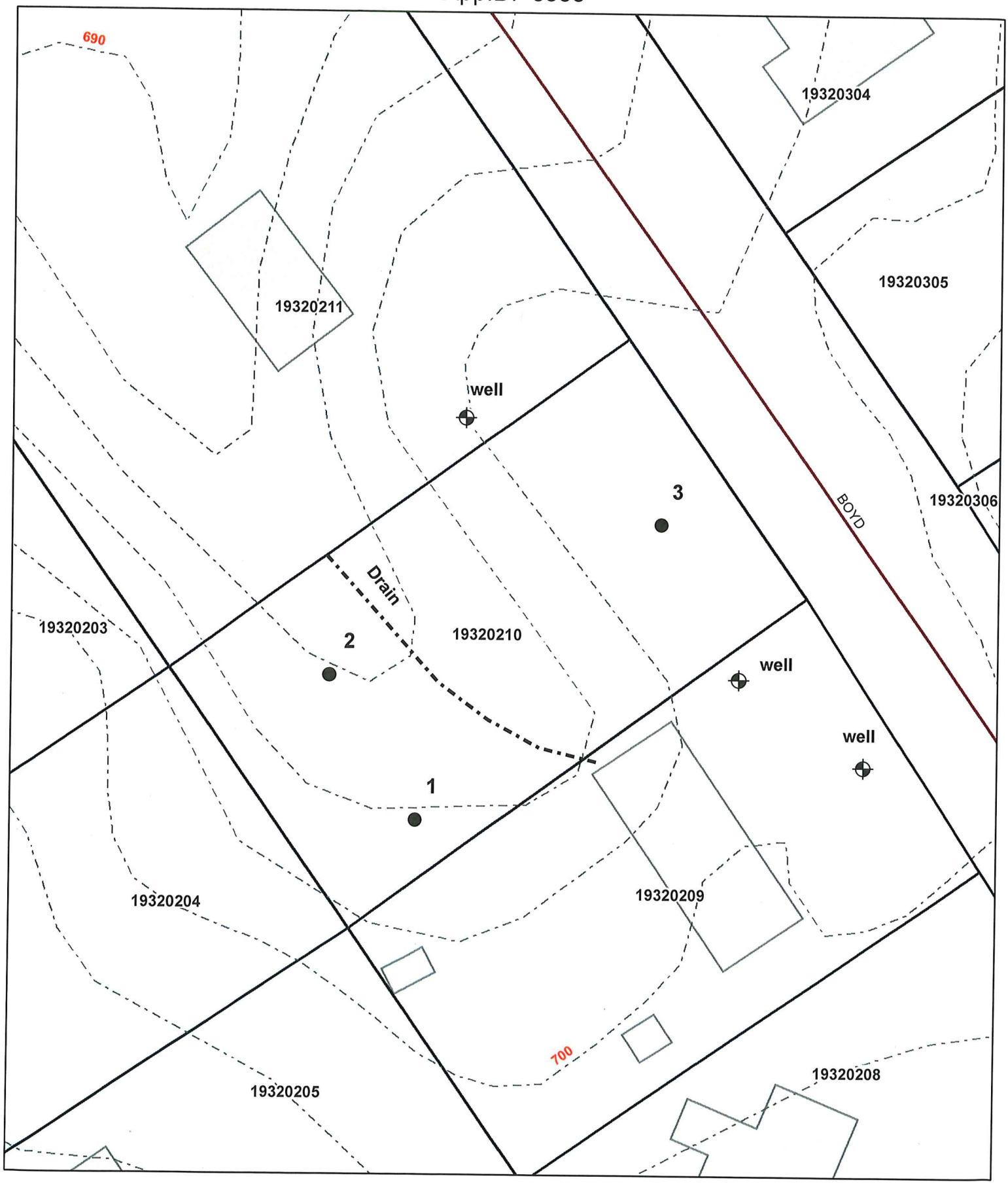
Parcel #: 193-202-10
File #: 8855B
AppID: 6566



Map Created By:
Map Created On:

0 20 40 Feet

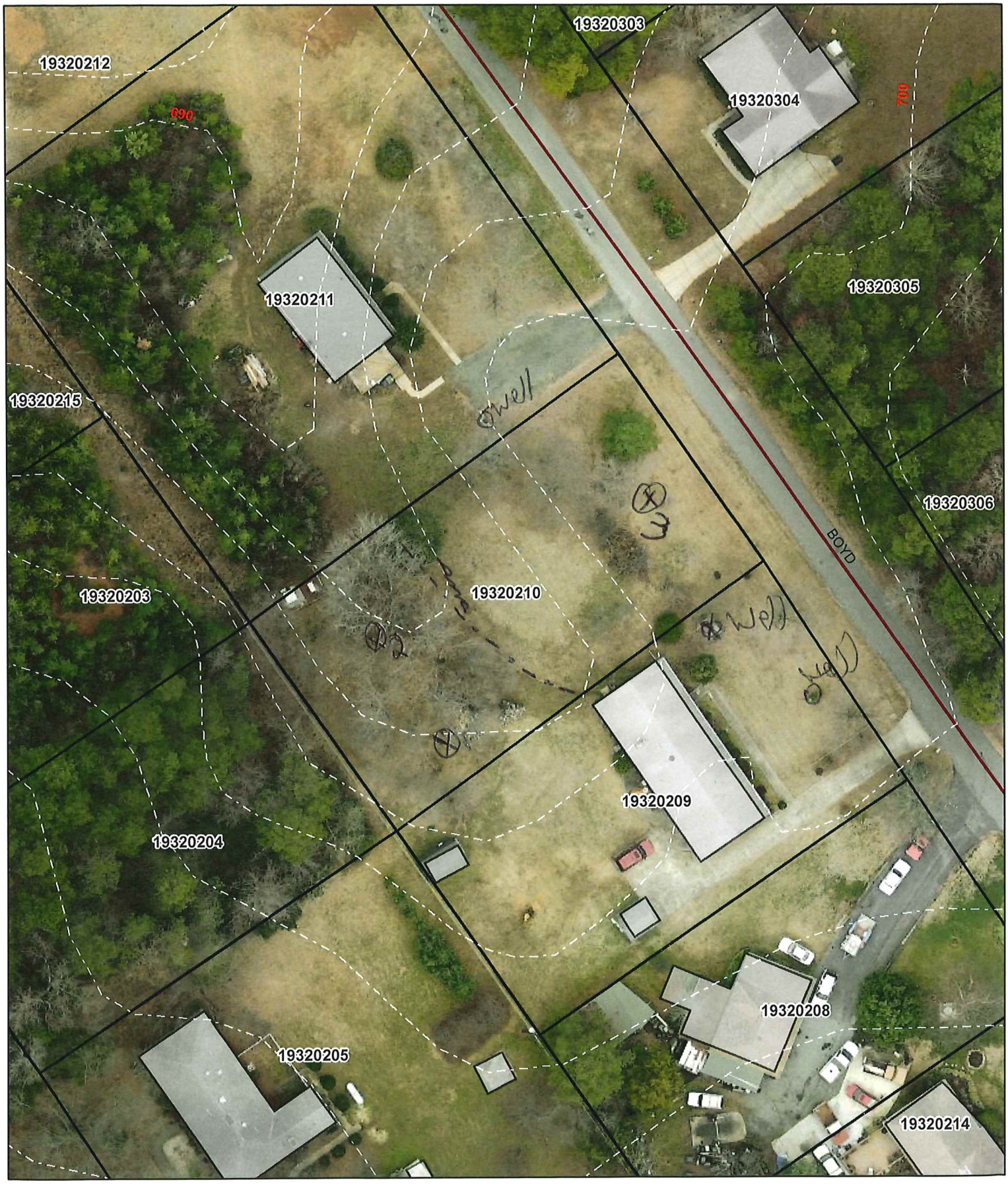
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Map Created By:
Map Created On:

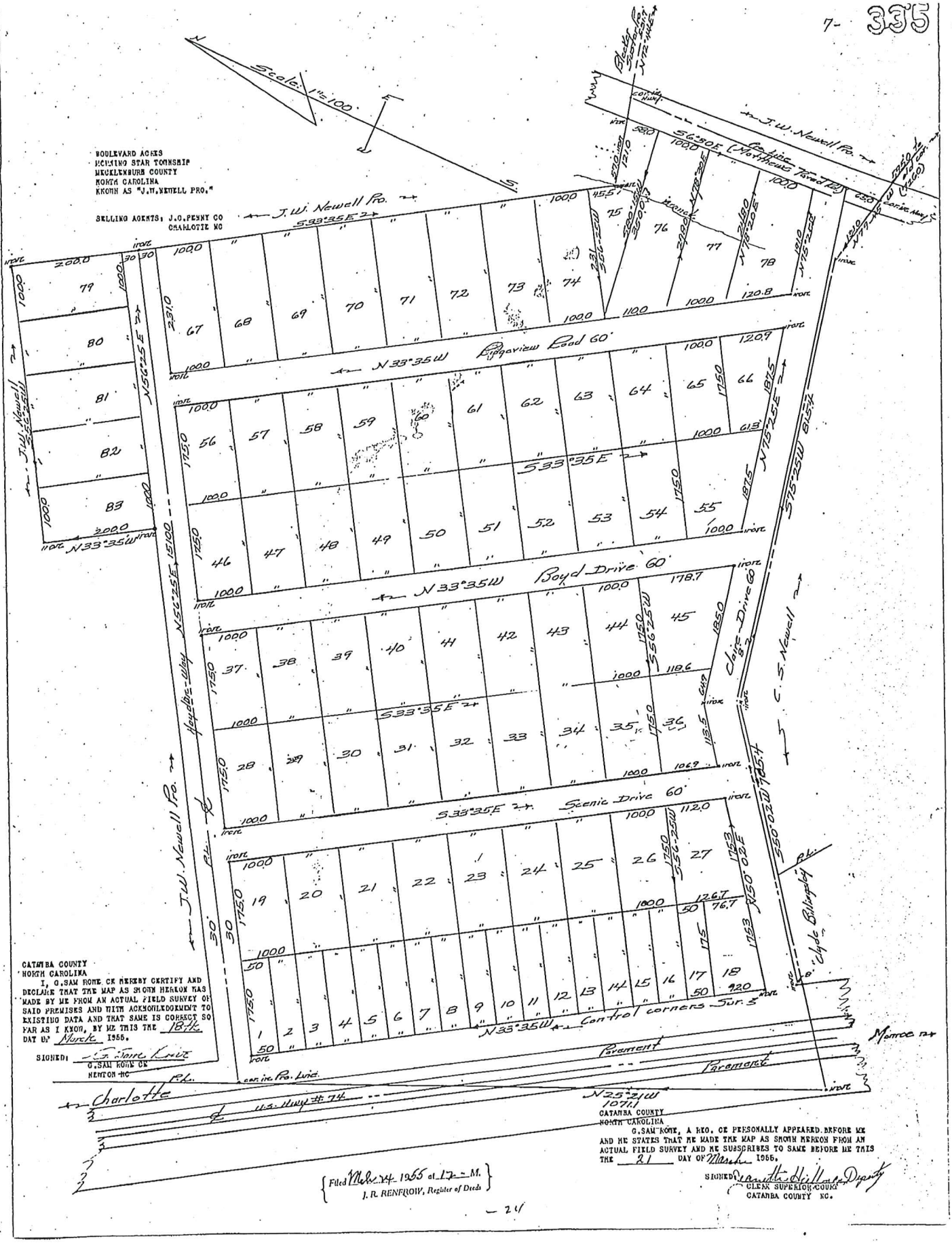
0 20 40 Feet

Parcel #: 193-202-10
File #: 8855B
AppID: 6566



Map Created By:
Map Created On:

0 25 50 Feet


Scale: 1"=100'
N
S
BOULEVARD ACRES
MORNING STAR TOWNSHIP
MECKLENBURG COUNTY
NORTH CAROLINA
KNOWN AS "J.W.NEWELL PRO."
SELLING AGENTS: J.C.PENNY CO
CHARLOTTE NC
J.W. Newell Pro.
S 33°35E
N 33°35W Pippaview Road 60'
N 33°35W Boyd Drive 60'
S 33°35E Scenic Drive 60'
Hoyette Way N 56°25E 151.00
S 75°25W 615.4
N 75°25E 187.5
S 56°25W 175.0
N 56°25E 175.0
C. S. Newell
Clyde Dr. 60'
Clyde Billingsley
Control corners Sur. S
N 33°35W
Pavement
Monroe rd
Charlotte
U.S. Hwy # 74
N 25°21W 107.1
CATAWBA COUNTY
NORTH CAROLINA
I, G.SAM ROWE CE HEREBY CERTIFY AND DECLARE THAT THE MAP AS SHOWN HEREON WAS MADE BY ME FROM AN ACTUAL FIELD SURVEY OF SAID PREMISES AND WITH ACKNOWLEDGEMENT TO EXISTING DATA AND THAT SAME IS CORRECT SO FAR AS I KNOW, BY ME THIS THE 18th DAY OF March 1955.
SIGNED: G.Sam Rowe CE
G.SAM ROWE CE
NEWTON NC
CATAWBA COUNTY
NORTH CAROLINA
G.SAM ROWE, A REG. CE PERSONALLY APPEARED BEFORE ME AND HE STATES THAT HE MADE THE MAP AS SHOWN HEREON FROM AN ACTUAL FIELD SURVEY AND HE SUBSCRIBES TO SAME BEFORE ME THIS THE 21 DAY OF March 1955.
SIGNED: Granville Dillon Deputy
CLERK SUPERIOR COURT
CATAWBA COUNTY NC.
Filed Mch 24 1955 at 12 - M.
J. R. RENFROW, Register of Deeds
- 21

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

Property ID: 193-202-10
Lot #: NA
File #: 8855B
AppID: 6566

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Clyde Simerly
Address: 9008 Boyd Dr., Matthews, NC 28105
Proposed Facility: 4BR House
Design Flow (.1949): 480 GPD
Location of Site: 9000 Boyd Dr, Matthews, NC 28105
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Troy Pruitt
Date Evaluated: 12/4/2013
Property Size: 16,600 sq. ft.
Property Recorded: Unknown

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 5%	0 - 20	wfsbk CL	FR SEXP	>50"	50	NA	NA		PS IV 0.35	36"
		20 - 50	mfsbk CL	FR SEXP							
Boring #2	LS 5%	0 - 26	mfsbk CL	FR SEXP	>50"	50	NA	NA		PS IV 0.3	36"
		26 - 50	mmsbk C	FR SEXP							
Boring #3	R 2%	0 - 2	gr L	FR SEXP	2 chroma @ 46"	49	NA	NA		PS IV 0.3	34"
		2 - 49	mfsbk C	FR SEXP							

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

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948): Unsuitable
Site Evaluation By: Bradley W Hallman
Others Present: Shelby Ledford

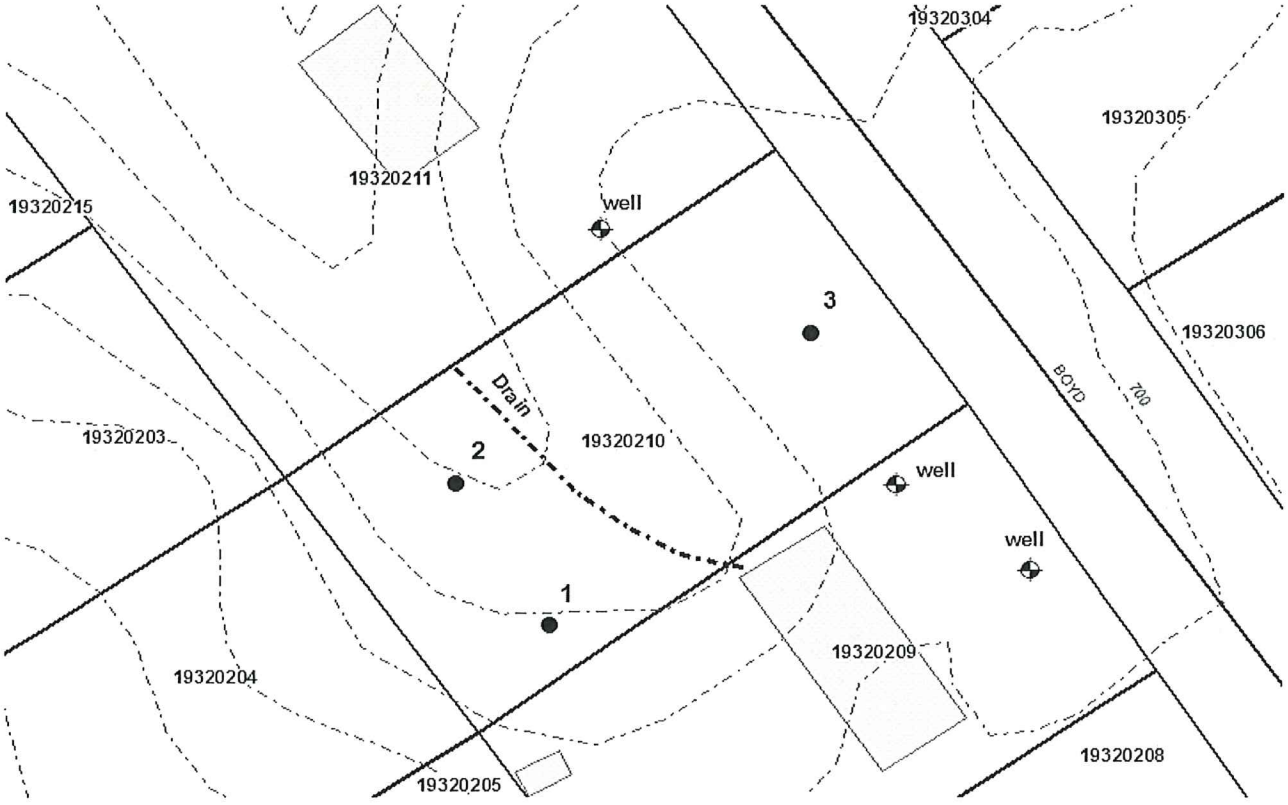
File #: 8855B
AppID: 6566

COMMENT: Site was deeded prior to 1977 therfore no repair area is required. Also setback are 5ft

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



8855B

Supervisor/Administrative Professional Checklist

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

New Septic Fees Paid:

IP ($250.00) lw 11/27/13 Initials/Date

CA ($200.00) _____ Initials/Date

OP ($200.00) _____ Initials/Date

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

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

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

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

Floor plans need to be submitted and reviewed before CA can be issued. ☐ Reviewed ☐ ____

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

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

Send permit for signature. ☐ Signature received. ☐ _____

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

Certified operator contract is on file. ☐ _____

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	11/27/13	**Amount:**	250.00
Receipt #:	86196	**Tendered:**	250.00
Check / Auth #:	CHARGE	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: X46708
Contractor: HABITAT 4 HUMANITY MATTHEWS
Attn:
Address: 136 E CHARLES ST
Address:
City/State/Zip: MATTHEWS, NC 28105

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 9000 BOYD DR		1	250.00	250.00

----------**Outstanding Balances**----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
250.00					

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 8855B WASPS App #: 11333

Primary ES assigned to project: Bryan Davenport

Secondary ES assigned to project: _____

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

I. File Review:

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