Supervisor/Administrative Professional Checklist

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

New Septic Fees Paid

IP ($250.00) LE 8/9/17 Initials/Date

CA ($200.00) AS 11/30/17 Initials/Date

OP ($200.00) AS 11/30/17 Initials/Date

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

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

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

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

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

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. ☑ DBC

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

Certified operator contract is on file. ☐ _____

MECKLENBURG COUNTY
HEALTH DEPARTMENT

9795B # 9088

9 AUG '17 AM 8:31

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. SEPTIC / TYPE APPLICATION: ○ N/A ☒ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ☒ N/A NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. JOB LOCATION INFORMATION:
TAX PARCEL NUMBER: 139 05 221
STREET ADDRESS: ~~8822 Beatlett Rd~~ 9015 Cavangate Dr.
CITY: Mint Hill
STATE: NC ZIP: 28227
SUBDIVISION NAME: _____
LOT #: 2 LOT SIZE (acres): .6144
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: 3000
NUMBER OF BEDROOMS: 3
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 [1] ANY TYPE [2] CONVENTIONAL [3] ACCEPTED [4] INNOVATIVE [5] ALTERNATIVE ☐ OTHER _____

8A. RANK: ANY CONV ACC INN ALT

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? Replat May 27, 2017 ☐ UNKNOWN

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

12. PROPERTY OWNER:
NAME: Hwa S. Kim
ADDRESS: 8822 Beatlett Rd
CITY: Charlotte
STATE: NC ZIP: 28227
WORK PHONE: 704-622-9419
MOBILE PHONE: 704-622-8366
FAX: _____
E-MAIL: K.Sconstruction@yahoo.com

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

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

Revised on: 4/20/17

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.

_____ 8-8-17

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: $_____ DATE FEE RECEIVED: _____

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

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

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

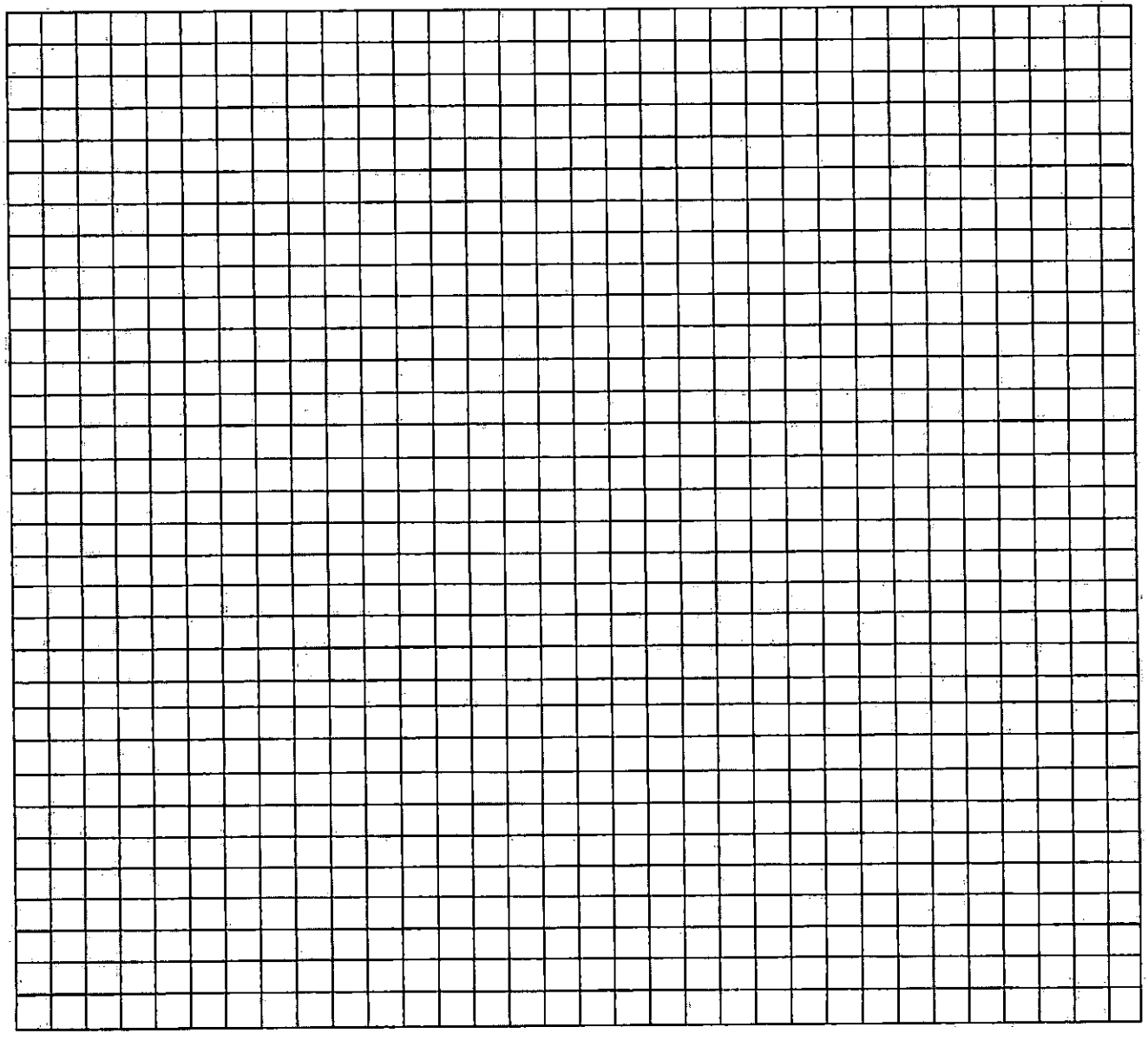
File #: _____

PROPOSED PLOT PLAN

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

Street Address: _____ Tax Parcel #: _____

Subdivision Name: _____ Lot #: _____



_____ _____

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

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

Revised on: 4/20/17

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

Sheet: 1 of 2
Property ID: 139-052-21
Lot #: 2
File #: 9795B
AppID: 9088

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Hwa S. Kim
Address: 8898 Bartlett Rd, Mint Hill, NC 28227
Proposed Facility: 3 Bedroom House
Design Flow (.1949): 360 GPD
Location of Site: 8898 Bartlett Rd, Mint Hill, NC 28227
Water Supply: [ ] Public [ ] Individual [ ] Well [ ] Spring [X] Municipal
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: owner
Date Evaluated: 8/30/2017
Property Size: 0.644 ac
Property Recorded: 5/27/2017

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 2%	0 - 4	gr SL	SS SP FR SEXP	>48"	48	NA	NA		PS IV 0.3	36"
		4 - 9	sbk SCL	SS SP FR SEXP							
		9 - 48	sbk/abk C	S P FR SEXP							
Boring #2	LS 3%	0 - 7	gr SL	S P FR SEXP	>49"	49	NA	NA	some yellow brown mottles in Clay horizon	PS IV 0.275	36"
		7 - 14	sbk SCL	SS SP FR SEXP							
		14 - 49	sbk/abk C	S P FR SEXP							
Boring #3	LS 4%	0 - 10	sbk SCL	SS SP FR SEXP	>49"	49	NA	NA	some yellow brown mottles in Clay horizon	PS IV 0.275	36"
		10 - 49	sbk C	S P FR SEXP							
Boring #4	LS 3%	0 - 4	gr SL	SS SP FR SEXP	>49"	49	NA	NA		PS IV 0.3	36"
		4 - 13	sbk SCL	SS SP FR SEXP							
		13 - 49	sbk/abk C	S P FR SEXP							
Boring #5	LS 2%	0 - 18	Fill	SS SP FR SEXP	>49"	49	NA	NA	Fill believed to be from tree removal	PS IV 0.275	36"
		18 - 48	sbk/abk C	S P FR SEXP							
									some yellow brown mottles in Clay horizon		

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIe	IIIe
Site LTAR (gpd/sq ft)	0.275	0.275

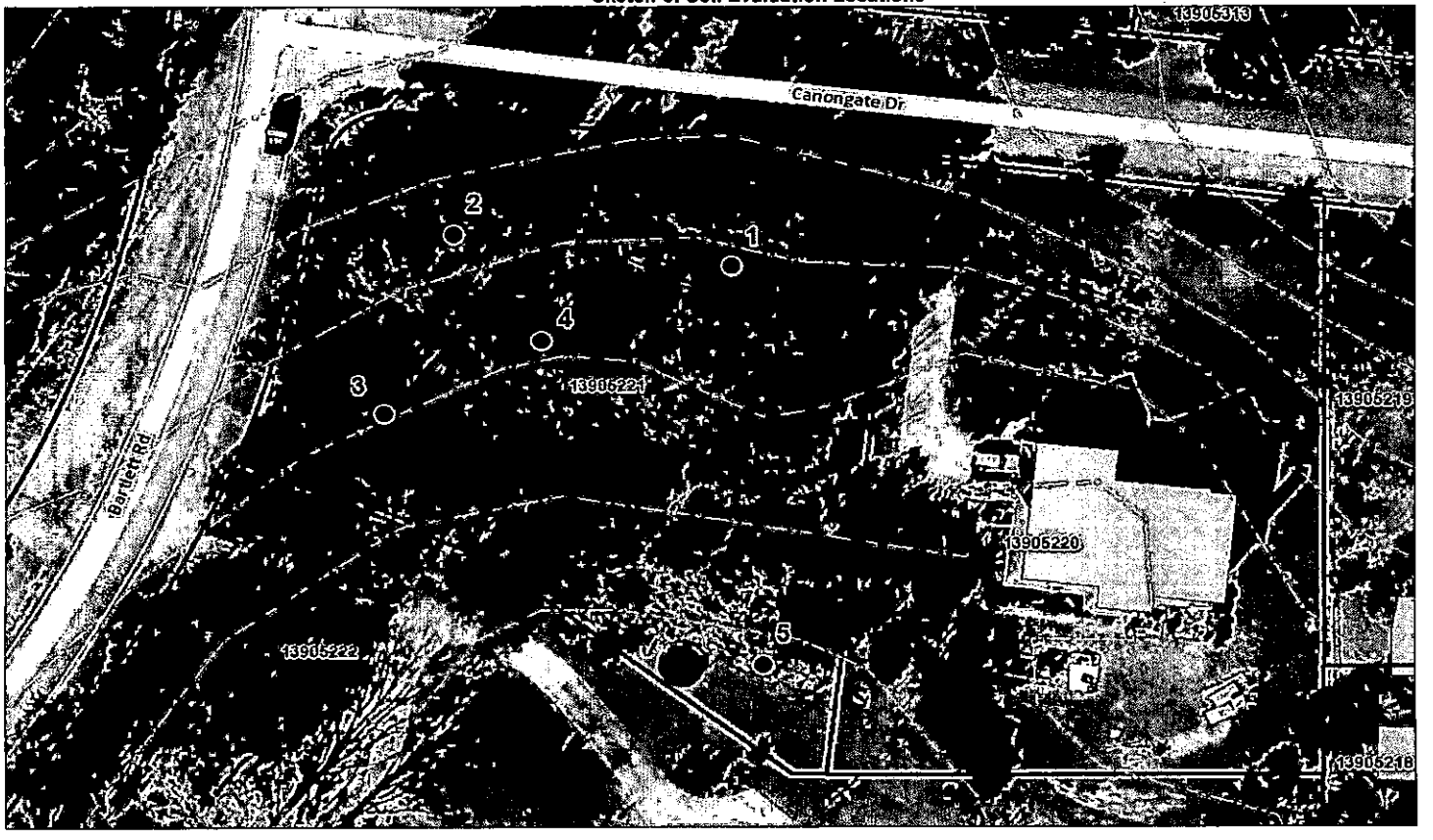
Other Factors (.1946): NA
Soil Evaluation By: Jacob Presley, LSS, REHS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: April Burngarner
Others Present:

COMMENTS: Quartz gravel was common in borings.

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

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

Sketch of Soil Evaluation Locations



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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30009088 GWS File #: 9795B Tax Parcel #: 139-052-21

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 10/10/2022

Type of Installation: Residential - New System Lot Number: 2

Structure Type: HOUSE Size (ft^2): 3000 # Bedrooms: 3 Max. Occup.: 6

Building Foundation: Concrete Slab Water Supply: Municipal

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

Initial System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	655	Total Trench Length (ft):	218
Maximum Trench Depth (in):	36	Depth of Media (in):	N/A	Distribution Device:	Distribution Box		

III. Repair System Type: PPBPS (gravity) **System Classification:** IIIe

Repair System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	655	Total Trench Length (ft):	218
Maximum Trench Depth (in):	36	Depth of Media (in):	N/A	Distribution Device:	Distribution Box		

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: April Bumgarner Owner/Legal Agent: Hwa S. Kim

Signature: April Bumgarner Signature: Hwa S. Kim

Print Name

Date Issued: 10/10/2017

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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30009088 GWS File #. 9795B

IV. Permit Conditions/Comments:

- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.

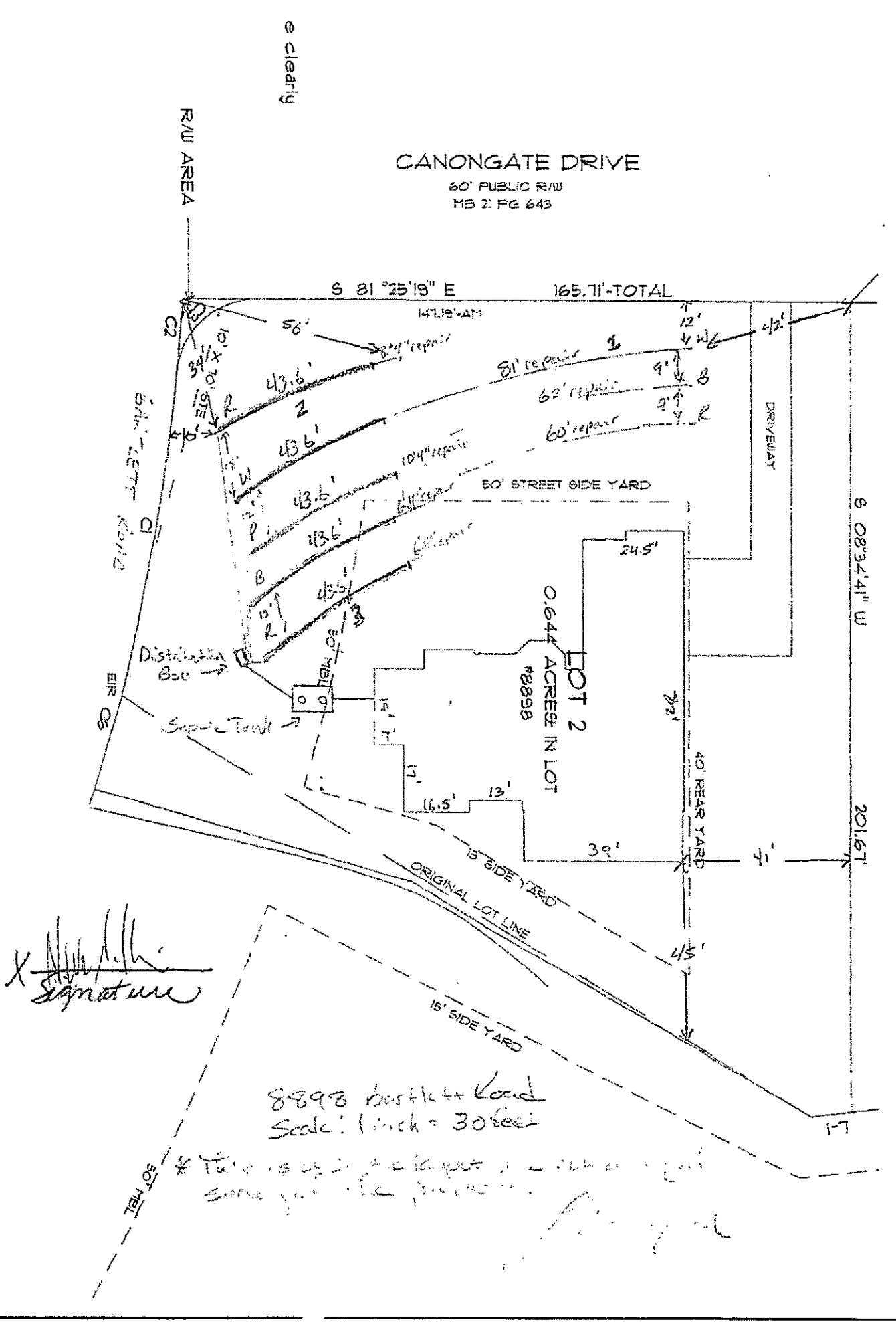
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Authorized Agent: April Bumgarner
Signature: April Bumgarner
Date Issued: 10/10/2017

Owner/Legal Agent: Hwa S. Kim
Print Name
Signature: Hwa S. Kim

Page 2 of 2


@ clearly
R/W AREA
CANONGATE DRIVE
60' PUBLIC R/W
MB 2: PG 643
S 81°25'19" E
165.71'-TOTAL
147.19'-AM
S 08°34'41" W
201.67'
DRIVEWAY
50' STREET SIDE YARD
40' REAR YARD
15' SIDE YARD
ORIGINAL LOT LINE
LOT 2
0.644 ACRES IN LOT
#8898
24.5'
39'
16.5'
13'
17'
15'
45'
Distribution Box
Septic Tank
EIR
SOIL TEST
88.98 Bostick Road
Scale: 1 inch = 30 feet
Signature

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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30009088** GWS File #: **9795B** Tax Parcel #: **139-052-21**

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Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	655	Total Trench Length (ft):	218		
Maximum Trench Depth (in):	36	Depth of Media (in):	N/A	Distribution Device:	Distribution Box				

III. Repair System Type: PPBPS (gravity) **System Classification:** IIIe

Repair System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	N/A		
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	655	Total Trench Length (ft):	218		
Maximum Trench Depth (in):	36	Depth of Media (in):	N/A	Distribution Device:	Distribution Box				

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: April Bumgarner Owner/Legal Agent: _____

Print Name

Signature: April Bumgarner Signature: _____

Date Issued: 10/10/2017

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

NC DHHS
Division of Environmental Health
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Permit #: **30009088** GWS File #: **9795B**

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

Authorized Agent: April Bumgarner

Signature: April Bumgarner

Date Issued: 10/10/2017

Owner/Legal Agent: _____
Print Name

Signature: _____

THOMPSON ENVIRONMENTAL CONSULTING, INC.
WATER ♦ WASTEWATER ♦ WETLANDS

September 18, 2018

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

Dear Ms. Bumgarner,

The purpose of this letter is to inform you that I have performed an inspection of the wastewater treatment and disposal system installed for 9015 Cannon Gate Drive, Mint Hill, North Carolina and I am satisfied that it meets the intent of the original proposal provided to your office (originally submitted with the street address of 8898 Bartlett Road).

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

FEE: 200.00
DATE: 4/5/2018

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

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9795B

PERMIT NUMBER: 30009088

PARCEL NUMBER: 13905221

JOB LOCATION INFORMATION

ADDRESS: 9015 CANONGATE DR

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

ISSUED TO: HWA S KIM

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 4/5/2018

CONSTRUCTION AUTHORIZATION CONDITIONS

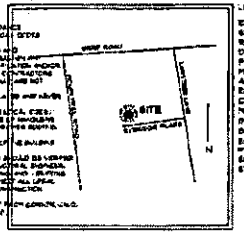
1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30009088, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

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

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

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

Authorized Agent Signature April Burrgamer



VICINITY MAP (N.T.S.)

GENERAL NOTES

LEGEND

EIR	EXISTING IRON ROD
SIR	SET IRON ROD
R/W	RIGHT-OF-WAY
DB	DEED BOOK
PG	PAGE
MB	MAP BOOK
AC	ACRES
ECM	EXISTING CONCRETE MONUMENT
CM	CONCRETE MONUMENT
PBL	MINIMUM BUILDING LINE
N.T.S.	NOT TO SCALE
BOC	BACK OF CURB
EOP	EDGE OF PAVEMENT
PP	POWER POLE
SCE	STORM DRAIN EASEMENT
SFE	SIGHT TRIANGLE EASEMENT

LINETYPE LEGEND

- 481 BASE LINE
- PROPERTY LINE
- ADJOINING LINE (NOT SURVEYED)
- TIE LINE

REVIEW OFFICER

I, _____, REVIEW OFFICER OF MECKLENBURG COUNTY, CERTIFY THAT THE MAP OR PLAT TO BE RECORDED COMPLIES WITH THE REVIEW OFFICER'S CERTIFICATE AND ALL STATUTORY REQUIREMENTS FOR RECORDING.

REVIEW OFFICER _____ DATE _____

NOTES:

1. SUBJECT PARCEL: 11903308

2. AREA CALCULATED BY COORDINATE GEOMETRY METHOD.
AREA LOT 2 = 0.044 ACRES
AREA LOT 3 = 1.043 ACRES
TOTAL AREA = 1.087 ACRES

3. ZONED: R-12MFSAD (PER PB 31 PG 643)
SETBACKS:
FRONT = 30'
SIDE = 10'
REAR = 40'

4. THIS PROPERTY MAY BE SUBJECT TO ANY AND ALL RIGHTS OF WAY AND EASEMENTS OF RECORD OR UNRECORDED, A TITLE AND COMPLETE TITLE SEARCH WAS NOT PERFORMED FOR THIS SURVEY.

5. IRF REBARS AT ALL CORNERS UNLESS OTHERWISE NOTED

6. THIS PROPERTY IS NOT GRAPHICALLY LOCATED IS NOT PER DESIGNATED SPECIAL FLOOD HAZARD AREA AS IDENTIFIED ON COMMUNITY PANEL 3709917500K DATED 2/5/14

7. NO ABOVE GROUND EVIDENCE OF DERELICTION EXISTS ON PERIPHERAL STRIP ACCESS OBSERVED ON THE SUBJECT TRACT

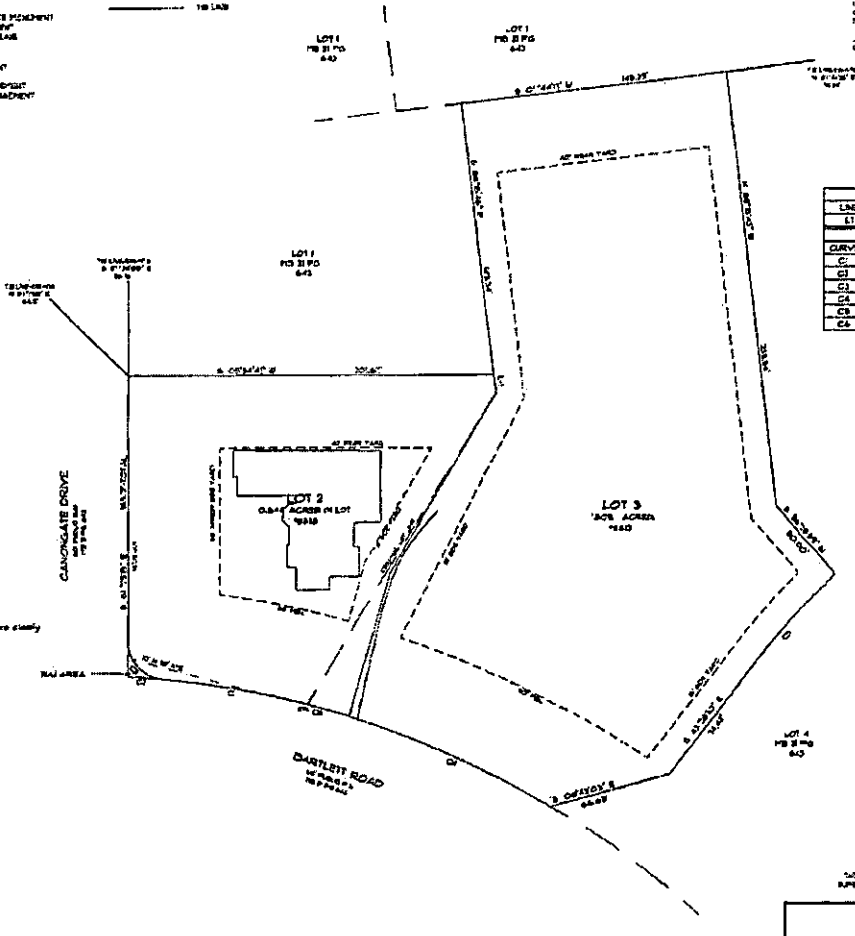
8. NO RECOVERABLE CORS MONUMENTS WITHIN 1000'

LINE TABLE

LINE	BEARING	LENGTH
L1	N89°59'49"W	10.00'

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1	523.00'	100.00'	99.85'	N7°34'07"E	10°57'09"
C2	513.00'	16.11'	16.11'	N3°27'15"E	1°48'16"
C3	10.00'	15.53'	14.02'	S36°16'41"W	89°00'00"
C4	513.00'	81.19'	103.81'	S31°38'09"W	11°31'01"
C5	403.00'	10.04'	10.04'	S19°39'07"W	1°25'43"
C6	50.00'	34.83'	34.13'	S31°39'38"E	39°55'03"


LOT 1
PB 31 PG 643
LOT 1
PB 31 PG 643
LOT 1
PB 31 PG 643
LOT 2
0.044 ACRES (N LOT)
#5810
LOT 3
1.043 ACRES
#5810
LOT 4
PB 31 PG 643
CANONGATE DRIVE
BARTLETT ROAD
S 01°44'01" W 149.77'
S 01°44'01" W 300.47'
S 88°15'59" E 100.00'
S 01°44'01" W 149.77'
S 88°15'59" E 100.00'
S 01°44'01" W 300.47'
N 88°15'59" W 100.00'
N 01°44'01" E 149.77'
N 88°15'59" W 100.00'
N 01°44'01" E 149.77'
N 88°15'59" W 100.00'
N 01°44'01" E 300.47'
S 31°39'38" E 84.89'
S 01°44'01" W 149.77'
S 01°44'01" W 300.47'
40' RIGHT-OF-WAY
40' RIGHT-OF-WAY
40' RIGHT-OF-WAY
40' RIGHT-OF-WAY
30' BUILDING SETBACK
30' BUILDING SETBACK
30' BUILDING SETBACK
30' BUILDING SETBACK
10' UTILITY EASEMENT
10' UTILITY EASEMENT
10' UTILITY EASEMENT
10' UTILITY EASEMENT
20' SANITARY SEWER EASEMENT
20' SANITARY SEWER EASEMENT
20' SANITARY SEWER EASEMENT
20' SANITARY SEWER EASEMENT
EXISTING 8" SANITARY SEWER LINE
EXISTING 8" SANITARY SEWER LINE
EXISTING 8" SANITARY SEWER LINE

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 08/09/17
Receipt #: 106973
Check / Auth #: VISA 095238
Received By: ELLISLW

Amount: 250.00
Tendered: 250.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: KIM, HYE
Attn:
Address: 8822 BARTLETT ROAD
Address:
City/State/Zip: CHARLOTTE, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 8898 BARTLETT D		1	250.00	250.00

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

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

Payment Receipt

Mecklenburg County POS

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

Enter Account # or Customer Name Here: HYE KIM

Bill To:

HYE KIM
8822 BARTLETT RD

Charlotte, NC 28227

Single Payment

Transaction Date: 08/09/2017 6:47 AM Pacific Time
Pay Method: VISA **********2711
Approval #: 09523B
Trace Number: e51f43c4-15f5-4283-a891-d8b44a7f428d
Amount: $250.00

Payment Amount: $250.00

Total: $250.00

Thank you for your payment.

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

8898 Bartlett Road
Mint Hill, NC 28227

Tax Parcel # 139-052-21
MCGWS File # 9795B
October 4, 2017

GWS Septic System Design Review

GWS File #: _____ Approved ☐ Disapproved ☐

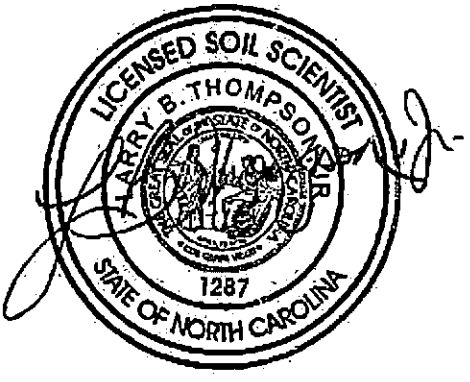
Design Review: _____ ☐ ☐

Field Review: ABB _____ ☑ ☐

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

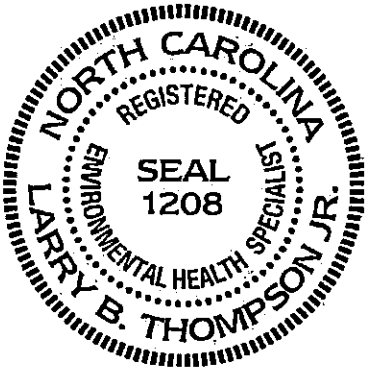
Prepared for:

Hwa S. Kim
8822 Bartlett Road
Mint Hill, NC 28227



Prepared by:

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



cc: Mecklenburg County Groundwater and Wastewater Services

Details

Mr. Kim has contracted with Thompson Environmental Consulting, Inc. (TEC) to prepare a septic proposal for a new 3-bedroom single family residence to be located at 8898 Bartlett Road, Mint Hill, North Carolina.

Based upon a soils investigation performed by TEC on the 0.644-acre lot, TEC has determined that a sufficient amount of "Suitable" Group IV soils are available for the installation of a gravity flow Prefabricated Porous Block Panel System (PPBPS) at a 0.275 long term acceptance rate (LTAR) for both the initial as well as the repair system.

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

Location

The subject property is located at 8898 Bartlett Road, Mint Hill, North Carolina. From downtown Charlotte, travel east on US 74 and continue on to NC 27 approximately 5.6 miles. Turn right onto Wilgrove-Mint Hill Road. Wilgrove-Mint Hill Road becomes Fairview Road. Turn left onto Bartlett Road. The property is located on the right at the intersection of Cannongate Drive.

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, July 2016.

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 Certified Professional Soil Classifier No. 111
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1000 gallons in capacity.
2. The septic tank will be fitted with an approved effluent filter.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tank has had time to properly cure and is free of cracks or other structural deficiencies.

B. Pipe, Fittings and Supply Line

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

C. Distribution Method

1. The system will be fed by a distribution box.

D. Drainfield Installation

1. The proposed drainfield location has been marked on-site utilizing metal stemmed flags. Once this area has been approved by the county, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the county for a preconstruction conference at which time the drainfield area will be re-verified.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition. If the installer has doubts as to whether the drainfield area is dry enough to begin construction, the environmental health specialist for this area should be contacted for permission to proceed with the installation.
3. The specified system is a Type IIIe pre-fabricated permeable block panel system – specifically the 16-inch-high panel system manufactured by T&J Panel Wastewater Treatment System, Patent No. 4013559; telephone: 1-800-222-2577. The installer must follow the manufacturer's guidelines for installing the T&J Panel System and should request an installation manual from the manufacturer prior to beginning construction.
4. The initial drain field consists of five (5) lateral trenches, each being 3-feet wide by 43 feet, 6 inches long.
5. It is essential that the lateral trenches be constructed on contour with the land, with each trench being excavated level from beginning to end. The use of a tripod mounted engineer's level is essential to assure that each trench is constructed as level as possible.
6. The maximum trench depth for this system shall be **36 inches**. Each trench shall be placed on a minimum of 9-foot on centers.

7. Once trenches are dug, the side walls shall be raked and a light dusting of lime applied.
8. Backfill the trench with 6 inches of sand and level to grade. Once leveled, place 1 x 4 or 6-inch boards on top of the sand the entire length of each trench. Once the grade boards have been set, the panels may be set into the trench. The panels should be placed 6 inches apart.
9. Once the panels have been set, line the top chamber of each panel with 10 – 12 pounds of clean particle sand (medium sand blasting sand). Coverage depth should be approximately 1 inch thick. *Please note that this sand is not the same material specified for backfill.*
10. Tar seal rope, or approved foam, should be placed in the "U" outs of each end of the panel to form seals. Once the tar rope is in place, the Schedule 40 PVC connectors can be added and the seal completed by the addition of more tar rope on the top and sides of the pipe. Now that the connection and seals are complete, a block cap is placed on each end of the panel so that all openings are covered.
11. Once the panels for each trench have been installed and the top of the panels closed, the trench is ready to be backfilled to the top with the sand used in the trench bottom. At this point, the trenches should be left open for the final inspection by the county environmental health specialist.

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. Final Landscaping

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

G. Utility Conflicts

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

Maintenance

I. In General

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

Design Specifics

Daily Design Flow:	360 GPD – 3 bedroom house
Septic Tank Size:	1000 gallons (minimum)
Effluent Loading Rate:	Design = 0.275 GPD per sq. ft.
Drain Field Type:	PPBPS
Distribution Method:	Distribution Box
Number of Drainlines:	5
Drainlines:	(5) 3' Wide x 43' 6" Long
Total Trench Length:	218 Linear Feet
Number of Panels per Line:	10
Total Number of Panels:	50
Maximum Trench Depth:	36 Inches
Final Cover Requirement:	6 Inches (minimum)
Repair System Type:	PPBPS
Repair System LTAR:	0.275 gpd/ft^2

Repair Distribution Method:	Gravity Flow (D-Box)
Total Length of Repair Lines:	218 Feet (233+ Available)
Maximum Repair Line Trench Depth:	36 Inches

PPBPS Design Worksheet							File #:	9795B
							Tax #:	139-052-21
System Requirements							Address:	8898 Bartlett Road
Design Flow	360	gpd						Mint Hill, NC
LTAR	0.275	gpd/ft.^2	*Design Rate - Not Assigned Rate				Consultant:	Larry Thompson
Linear footage	436	ft. (conventional)					Phone:	704-301-4881
Linear footage	218	ft. (50% Reduction)						
							Reviewed By:	
Design Layout							Date:	
Laterals	Length (ft)	# Panels						
Line # 1	43.6	10						
Line # 2	43.6	10						
Line # 3	43.6	10						
Line # 4	43.6	10						
Line # 5	43.6	10						
Totals	**218**	**50**						
Absorption Area								
Length (ft)	Width (ft)	Area (ft^2)						
218	3	654						
Comments:								
1. Install system using 3 ft. wide trenches.								
2. Install drainlines on 9 ft. centers, level, and on contour.								
3. 100% repair area required for property (Gravity Flow PPBPS).								

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

SHEET 1 OF 1

COUNTY: Mecklenburg
TAX ID: 139-052-21

OWNER: Hwa S. Kim
LOCATION: 8898 Bartlett Road
Mint Hill, NC 28227

DATE: 10-02-17

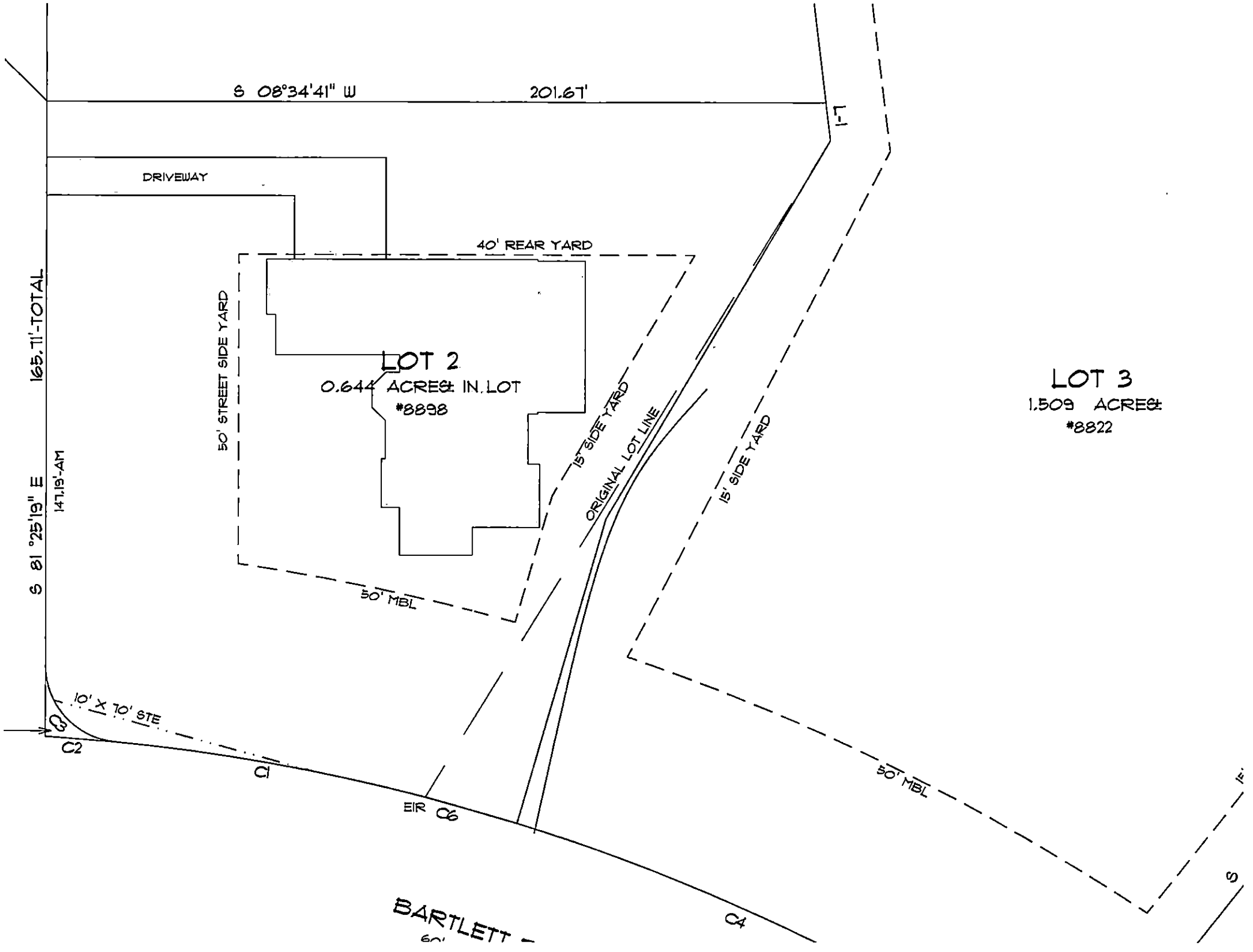
PROFILES		1	2	3							
LANDSCAPE POSITION	.1940	ls	ls	ls							
SLOPE (%)	.1940	3%	3%	3%							
HORIZON 1 DEPTH	.1943	0-3	0-6	0-4							
TEXTURE	.1941 (a)(1)	sl	sl	sl							
CONSISTENCE	.1941	fr	fr	fr							
STRUCTURE	.1941 (a)(2)	gr	gr	gr							
CLAY MINERALOGY	.1941 (a)(3)	—	—	—							
HORIZON 2 DEPTH	.1943	3-11	6-12	4-9							
TEXTURE	.1941 (a)(1)	scl	scl	scl							
CONSISTENCE	.1941	fr	fr	fr							
STRUCTURE	.1941 (a)(2)	sbk	sbk	sbk							
CLAY MINERALOGY	.1941 (a)(3)	se	se	se							
HORIZON 3 DEPTH	.1943	11-48	12-48	9-48							
TEXTURE	.1941 (a)(1)	c	c	c							
CONSISTENCE	.1941	f	f	f							
STRUCTURE	.1941 (a)(2)	sbk	sbk	sbk							
CLAY MINERALOGY	.1941 (a)(3)	se	se	se							
HORIZON 4 DEPTH	.1943										
TEXTURE	.1941 (a)(1)										
CONSISTENCE	.1941										
STRUCTURE	.1941 (a)(2)										
CLAY MINERALOGY	.1941 (a)(3)										
SOIL WETNESS	.1942										
RESTRICTIVE HORIZON	.1944										
SAPROLITE	.1943/.1956										
CLASSIFICATION	.1948	S	S	S							
L.T.A.R. (gpd/ft^2)	.1955	.3	.275	.275							

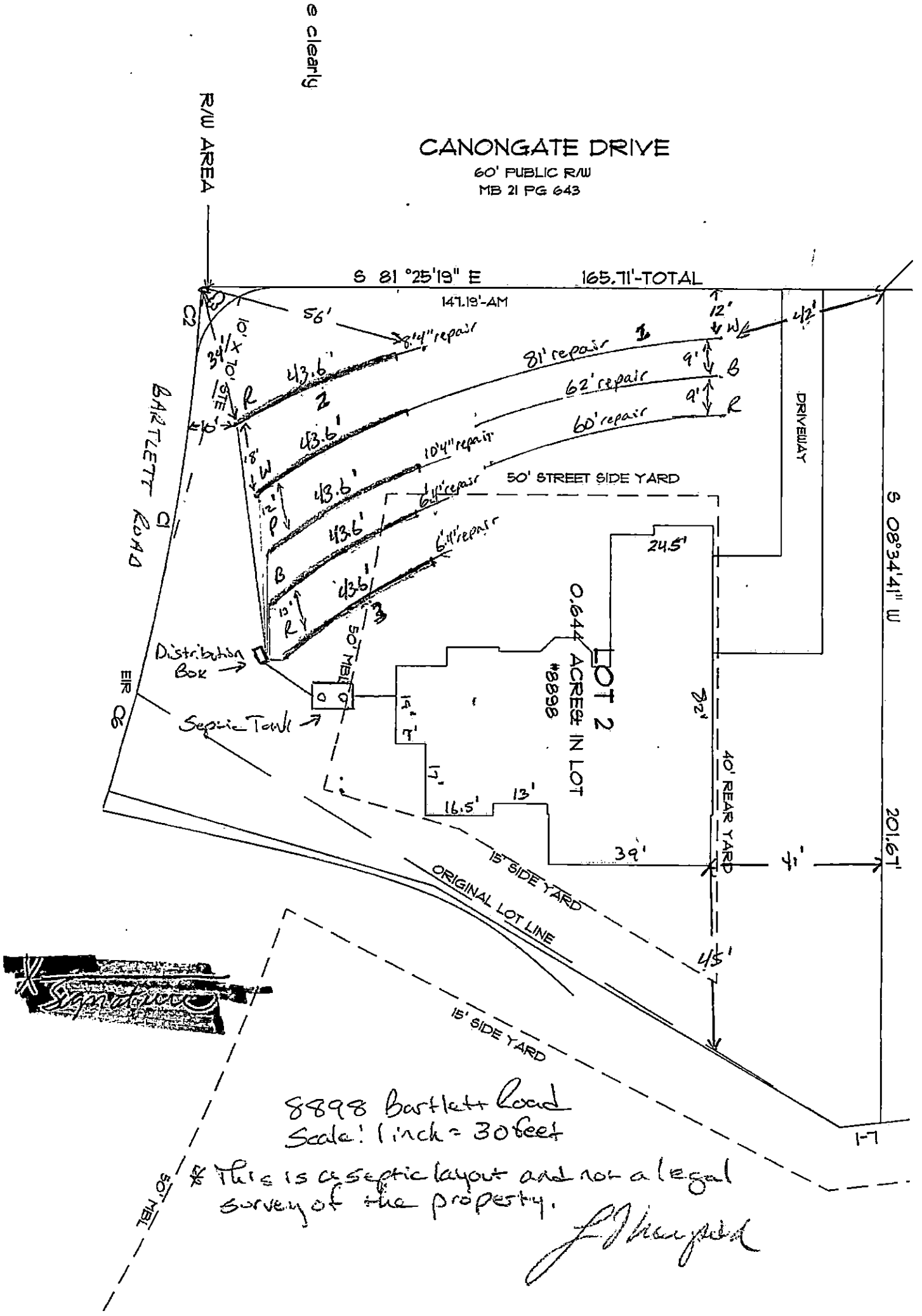
OTHER FACTORS (.1946):
AVAILABLE SPACE (.1945): 11S
SITE CLASSIFICATION (.1948): 1PS

SITE LTAR (gpd/ft^2): .275
SYSTEM TYPE: Mounds

EVALUATED BY: Larry Thompson, LSS
OTHERS PRESENT:

COMMENTS:

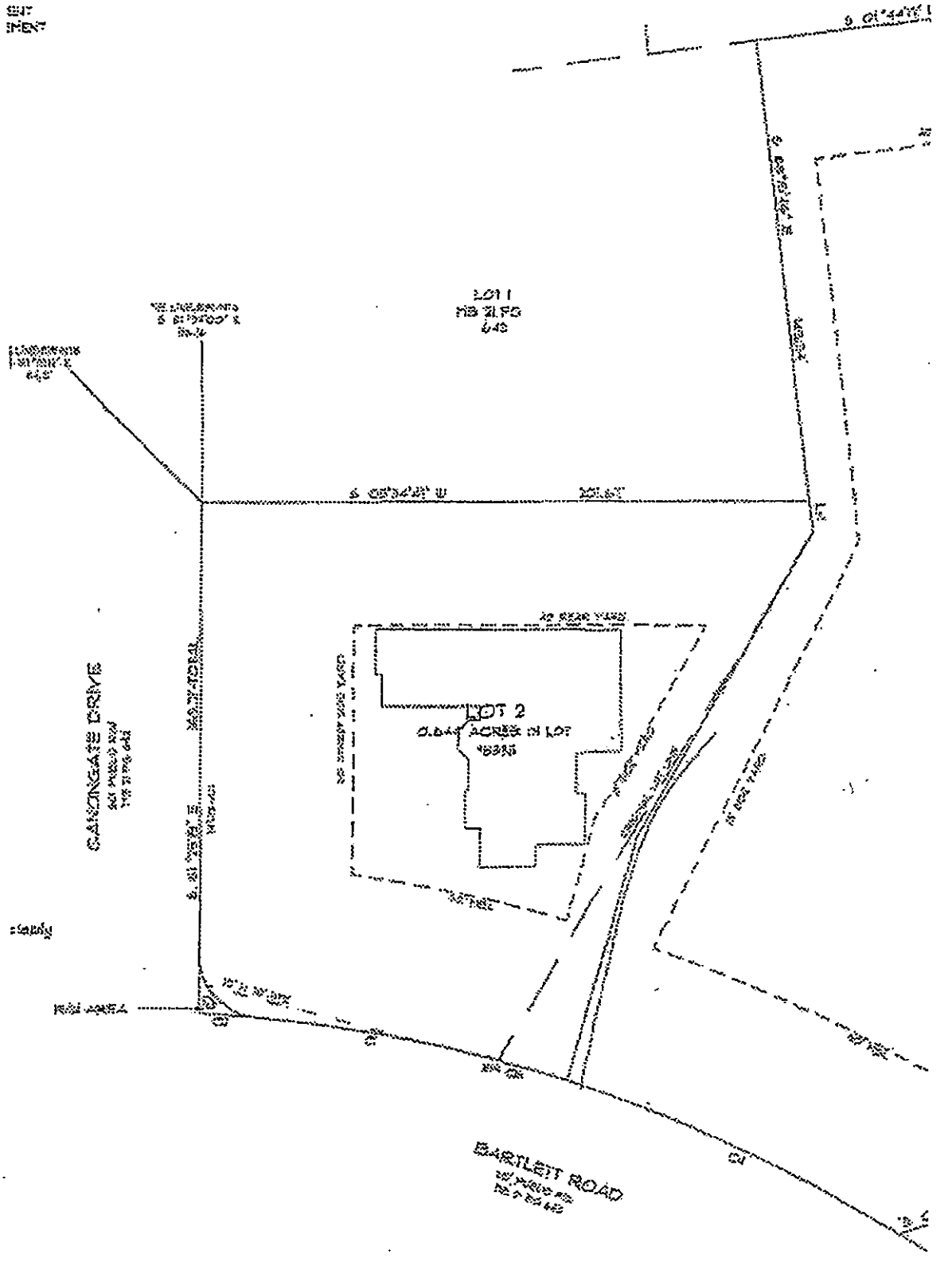

S 08°34'41" W
201.67'
DRIVEWAY
40' REAR YARD
165.71'-TOTAL
S 81°25'19" E
147.19'-AM
50' STREET SIDE YARD
LOT 2
0.644 ACRES± IN. LOT
#8898
15' SIDE YARD
ORIGINAL LOT LINE
15' SIDE YARD
50' MBL
LOT 3
1.509 ACRES±
#8822
10' X 10' STE
C3
C2
C1
EIR
C6
50' MBL
BARTLETT
C4



8898 Bartlett Road
Scale: 1 inch = 30 feet

* This is a septic layout and not a legal survey of the property.

1" = 50'



1" = 50'

Payment Receipt

Mecklenburg County POS

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

Enter Account # or Customer Name Here: HWA KIM

Bill To:

HWA KIM
8822 BARTLETT RD

Charlotte, NC 28227

Single Payment

Transaction Date: 11/30/2017 7:18 AM Pacific Time
Pay Method: **********0178
Approval #: 06713C
Trace Number: 896c073c-e7b5-4ab2-ab43-a146377508bf
Amount: $400.00

Payment Amount: $400.00

Total: $400.00

Thank you for your payment.

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	11/30/17	**Amount:**	200.00
Receipt #:	108380	**Tendered:**	200.00
Check / Auth #:	MC 06713C	**Returned:**	0.00
Received By:	ABDUSAI		

Account Information

Account #:	200000
Contractor:	KIM, HWA
Attn:	
Address:	8822 BARTLETT RD
Address:	
City/State/Zip:	CHARLOTTE, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 9015 CANONGATE		1	200.00	200.00

Outstanding Balances

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

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	11/30/17	**Amount:**	200.00
Receipt #:	108382	**Tendered:**	200.00
Check / Auth #:	MC 06713C	**Returned:**	0.00
Received By:	ABDUSAI		

Account Information

Account #: 200000
Contractor: KIM, HWA
Attn:
Address: 8822 BARTLETT RD
Address:
City/State/Zip: CHARLOTTE, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 9015 CANONGATE		1	200.00	200.00

Outstanding Balances

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

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

Septic System Pre-Construction Meeting Checklist

File # 9795B App # 9088 Tax Parcel # 139-052-21

Property Owner: Hwa S. Kim

Job Location Address: 9015 Cannon Gate Dr

City: Mint Hill State: NC Zip Code: 28227

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

   ☑ YES ☐ NO

   Comments: _____

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

   ☑ YES ☐ NO

   Comments: _____

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

   ☑ YES ☐ NO

   Comments: _____

* 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.**

April Burrgamer — 8-22-18

Authorized Agent — Date

Lago Vista

Others Present

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

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

File #: 9795B Permit #: 9088 Tax Parcel #: 139-052-21

Property Owner: Hwa S. Kim

Job Location Address: 9015 Cannon Gate Dr

City: Mint Hill State: NC Zip Code: 28227

Operation Permit Issuance Date: 9-18-18 **Contractor Name:** Lago Vista

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

Liquid Capacity of Septic Tank: 1000 gallons Manufacture Dellinger Effluent Pump Model: NA

Drainfield Installation ☐ N/A

Trench Depth: 36 inches
Trench Width: 3 feet
Line Spacing: 9 feet (O.C.)
Total line length: 320 feet
# of Lines: 5 @ 44 feet
Depth of Media: N/A inches (Type) PPBPS
Depth of Cover: 6"+ inches
Distribution Device: D-Box

Bed Installation (For Repair Installations ONLY) ☑ N/A

Bed Depth: _____ inches
Bed Width: _____ feet
Total line length: _____ feet
# of Lines: _____ @ _____ feet
Depth of Media: _____ inches (Type) _____
Depth of Cover: _____ inches
Distribution Device: _____

Water Supply Source

☑ Municipal ☐ Private Well ☐ Community Well
☐ Other _____

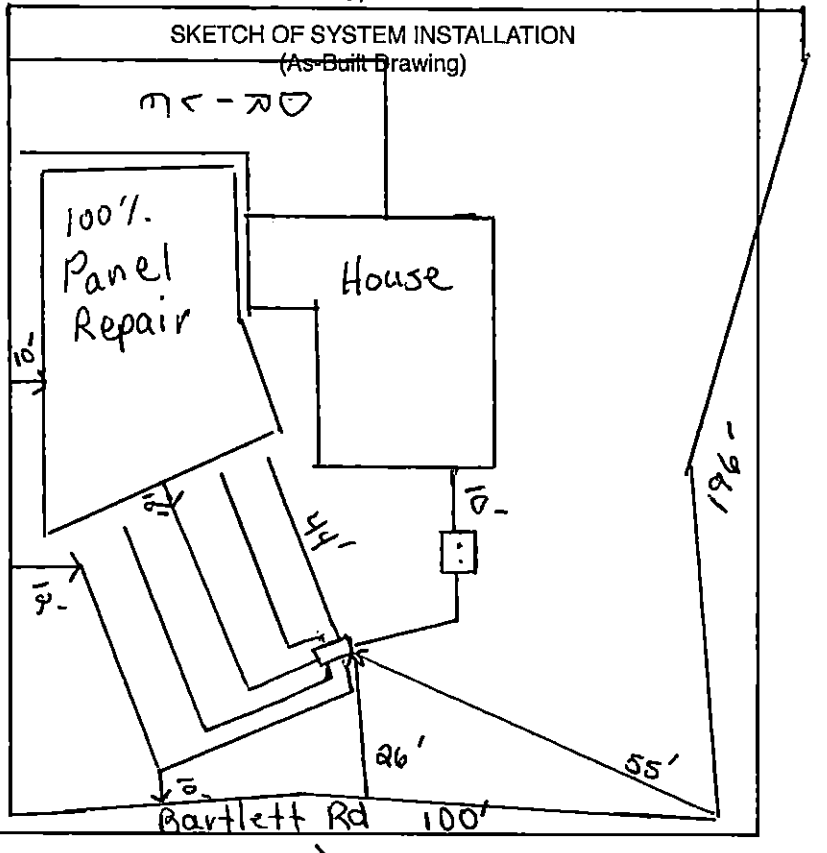
System Installation Setbacks

Distance from Building Foundation: 10' feet
Distance from Property Line: 10' feet
Distance from Water Supply Source: 10' feet

Inspection Dates

Tank(s) Inspected: 9-12-18
Excavation Inspected: 9-12-18
Pump & Controls Inspected: NA

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



The undersigned has inspected the Septic Tank System described above, and certifies it has been ☑ installed ☐ altered ☐ repaired ☑ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operated 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: IIIe / PPBPS / g / NA / NA

DENR Authorized Agent: April Bumgarner Signature: April Bumgarner

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

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

File #: 9795B Permit #: 9088 Tax Parcel #: 139-05a-21

Property Owner: HWA S. Kim

Job Location Address: 9015 Cannon Gate Dr

City: Mint Hill State: NC Zip Code: 28227

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIe

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: April Bumgarner Date: 9-18-18

Signature: April Bumgarner