9017B

Supervisor/Administrative Professional Checklist

New Septic [X] **New Well** [ ] **Use Existing** [ ] **Alteration** [ ] **Modified Plot Plan** [ ]

New Septic Fees Paid:

IP ($250.00) Luas 9/18/14 Initials/Date

CA ($200.00) VAW 6/12/15 Initials/Date

OP ($200.00) VAW 6/12/15 Initials/Date

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

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

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

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

Floor plan reviewed by JBP

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. [✓] 10/28/14

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

Certified operator contract is on file. [ ] _____

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 9017B WASPS App #: 7058

Primary ES assigned to project: _____

Secondary ES assigned to project: _____

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

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☑	No ☐	N/A ☐
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☑	No ☐	N/A ☐
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 4			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR 0.275	Yes ☑	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☐	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

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

II. WASPS Review:

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

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: 10-29-15

OP issued date: 12-16-15

Review performed by: JAM Date performed: 12-16-15

9017B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

App # 7058

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: 13928101 PO

STREET ADDRESS: 8521 Aspen Court

CITY: Mint Hill

STATE: NC **ZIP:** 28227

SUBDIVISION NAME: Oak Bridge at Water Leaf

LOT #: 26 **LOT SIZE (acres):** 0.69

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: 2800

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: 4 NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: 4

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

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

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

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

8A. **RANK:** ____ ____ ____ ____ ____

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

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

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** 7/18/14 ☐ UNKNOWN

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

12. **PROPERTY OWNER:**

NAME: True Homes, LLC
ADDRESS: 2649 Brekonridge Centre Drive
CITY: Monroe
STATE: NC ZIP: 28110
WORK PHONE: (704) 238-1229
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

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

NAME: Max Thomason
ADDRESS: 2627 Brekonridge Centre Drive
CITY: Monroe
STATE: NC ZIP: 28110
WORK PHONE: (704) 774-1964
MOBILE PHONE: (704) 201-5117
FAX: (704) 774-1965
E-MAIL: mthomason@truehomesusa.com

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

Revised on: 12/15/10

File #: _____

PROPOSED PLOT PLAN

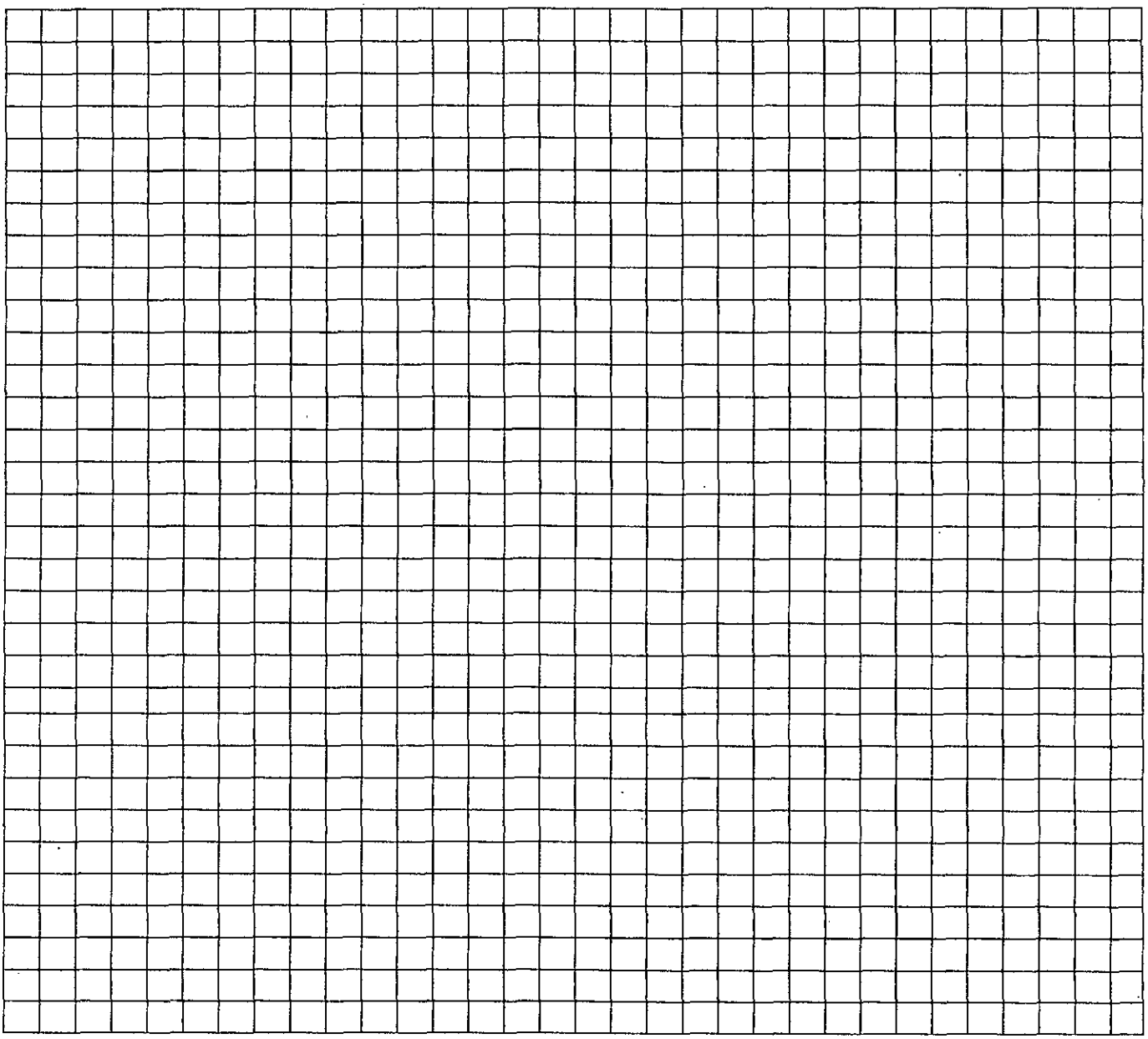
A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), 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: 8521 ASPEN COURT

Tax Parcel #: 13928218

Subdivision Name: Oak Bridge @ Water Leaf

Lot #: 26



Melody R. Patrick

Property Owner's or Owner's Legal Representative Signature

4/30/15

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

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.

MAT (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.

Matt Thomason
Property Owner's or Owner's Legal Representative Signature

9/12/14
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: 9/12/14

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

APPLICATION PROCESSED BY: Dws

GWS FILE NUMBER ASSIGNED: 9017B

APPLICATION ID NUMBER ASSIGNED: 7058

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

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

Sheet: 1 of 2
Property ID: 139-281-01(Portion of)
Lot #: 26
File #: 9017B
AppID: 7058

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: True Homes
Address: 2649 Brekonridge Centre Dr., Monroe, NC 28110
Proposed Facility: 4BR House
Design Flow (.1949): 480 GPD
Location of Site: 8535 Aspen Ct, Mint Hill, NC 28227
Water Supply: [X] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Max Thomason
Date Evaluated: 10/1/2014
Property Size: 0.69 ac
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 6%	0 - 6	gr CL	FR SEXP	>50"	50	NA	NA	saprolite inclusions 42 - 50"	PS IV 0.3	36"
		6 - 42	mmsbk C	FI SEXP							
		42 - 50	wfsbk CL	FR SEXP							
Boring #2	LS 5%	0 - 5	gr CL	FR SEXP	2 chroma @ 48"	50	NA	NA		PS IV 0.275	34"
		5 - 38	mmsbk C	FI SEXP							
		38 - 50	wfsbk CL	FR SEXP							
Boring #3	LS 5%	0 - 10	wfsbk CL	FR SEXP	2 chroma @ 44"	48	NA	NA		PS IV 0.275	30"
		10 - 28	mfsbk C	FI SEXP							
		28 - 48	wfabk CL	FI SEXP							
Boring #4	LS 5%	0 - 5	wfsbk CL	FR SEXP	>48"	48	NA	NA	manganese 10 - 30"	PS IV 0.275	32"
		5 - 30	wfsbk C	FI SEXP							
		30 - 48	wfsbk CL	FR SEXP							

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

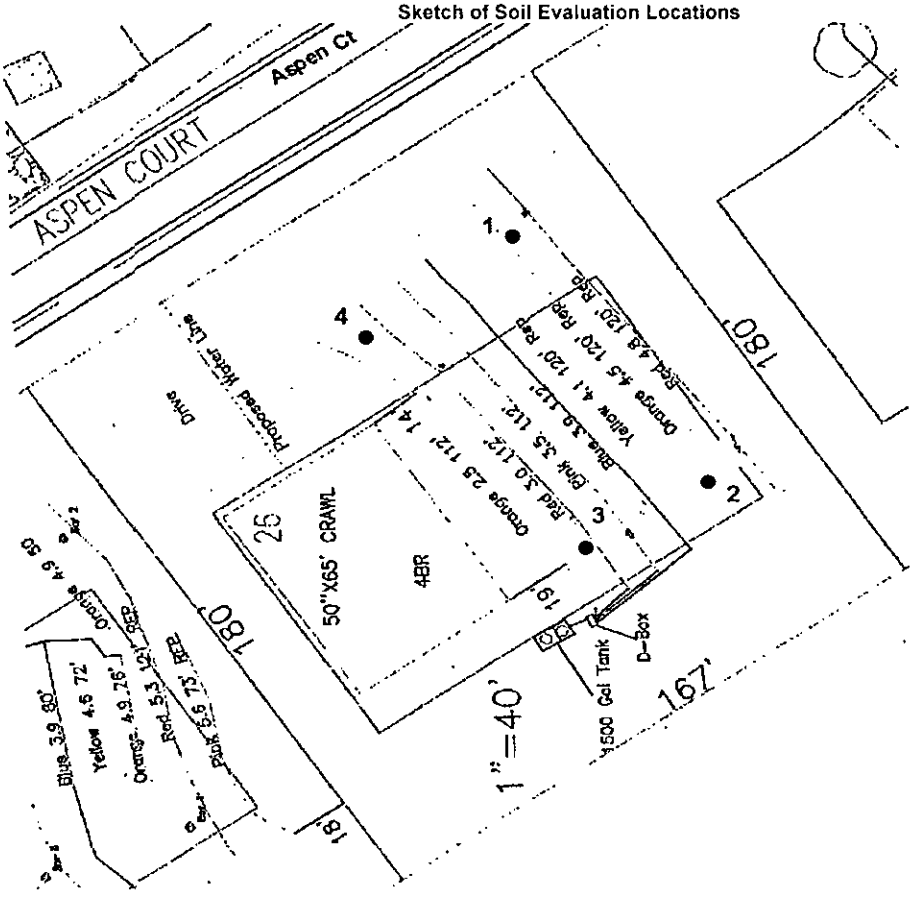
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By: Shelby Ledford Shelby Ledford
Others Present: REHS

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				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 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



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

Sheet: 1 of 2
Property ID: 139-281-01(Portion of)
Lot #: 26
File #: 9017B
AppID: 7058

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: True Homes
Applicant: Max Thomason
Address: 2649 Brekonridge Centre Dr., Monroe, NC 28110
Date Evaluated: 10/1/2014
Proposed Facility: 4BR House
Design Flow (.1949): 480 GPD
Property Size: 0.69 ac
Location of Site: 8535 Aspen Ct, Mint Hill, NC 28227
Property Recorded: Unknown
Water Supply: [X] Public [X] 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 6%	0 - 6	gr CL	FR SEXP	>50"	50	NA	NA	saprolite inclusions 42 - 50"	PS IV 0.3	36"
		6 - 42	mmsbk C	FI SEXP							
		42 - 50	wfsbk CL	FR SEXP							
Boring #2	LS 5%	0 - 5	gr CL	FR SEXP	2 chroma @ 48"	50	NA	NA		PS IV 0.275	34"
		5 - 38	mmsbk C	FI SEXP							
		38 - 50	wfsbk CL	FR SEXP							
Boring #3	LS 5%	0 - 10	wfsbk CL	FR SEXP	2 chroma @ 44"	48	NA	NA		PS IV 0.275	30"
		10 - 28	mfsbk C	FI SEXP							
		28 - 48	wfabk CL	FI SEXP							
Boring #4	LS 5%	0 - 5	wfsbk CL	FR SEXP	>48"	48	NA	NA	manganese 10 - 30"	PS IV 0.275	32"
		5 - 30	wfsbk C	FI SEXP							
		30 - 48	wfsbk CL	FR SEXP							

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

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

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

Sheet: 1 of 2
Property ID: 139-281-01(Portion of)
Lot #: 26
File #: 9017B
AppID: 7058

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: True Homes
Address: 2649 Brekonridge Centre Dr., Monroe, NC 28110
Proposed Facility: 4BR House
Design Flow (.1949): 480 GPD
Location of Site: 8535 Aspen Ct, Mint Hill, NC 28227
Water Supply: [X] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Max Thomason
Date Evaluated: 10/1/2014
Property Size: 0.69 ac
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 6%	0 - 6	gr CL	FR SEXP	>50"	50	NA	NA	saprolite inclusions 42 - 50"	PS IV 0.3	36"
		6 - 42	mmsbk C	FI SEXP							
		42 - 50	wfsbk CL	FR SEXP							
Boring #2	LS 5%	0 - 5	gr CL	FR SEXP	2 chroma @ 48"	50	NA	NA		PS IV 0.275	34"
		5 - 38	mmsbk C	FI SEXP							
		38 - 50	wfsbk CL	FR SEXP							
Boring #3	LS 5%	0 - 10	wfsbk CL	FR SEXP	2 chroma @ 44"	48	NA	NA		PS IV 0.275	30"
		10 - 28	mfsbk C	FI SEXP							
		28 - 48	wfabk CL	FI SEXP							
Boring #4	LS 5%	0 - 5	wfsbk CL	FR SEXP	>48"	48	NA	NA	manganese 10 - 30"	PS IV 0.275	32"
		5 - 30	wfsbk C	FI SEXP							
		30 - 48	wfsbk CL	FR SEXP							

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

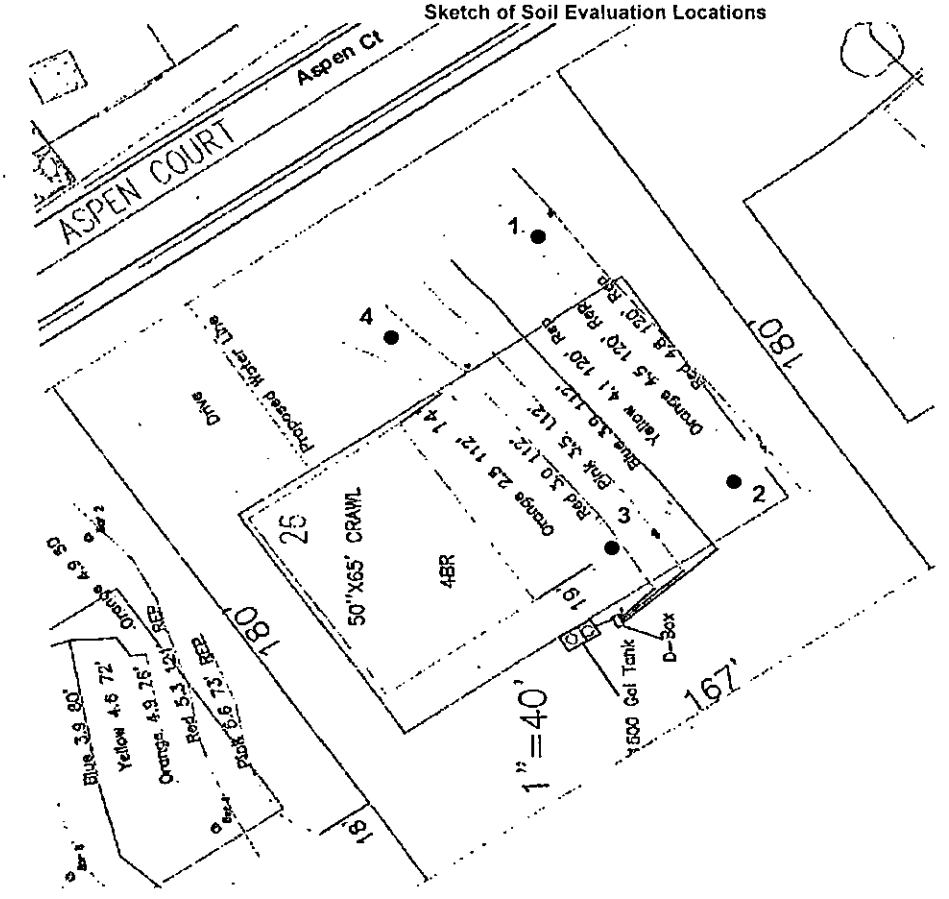
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

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				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 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

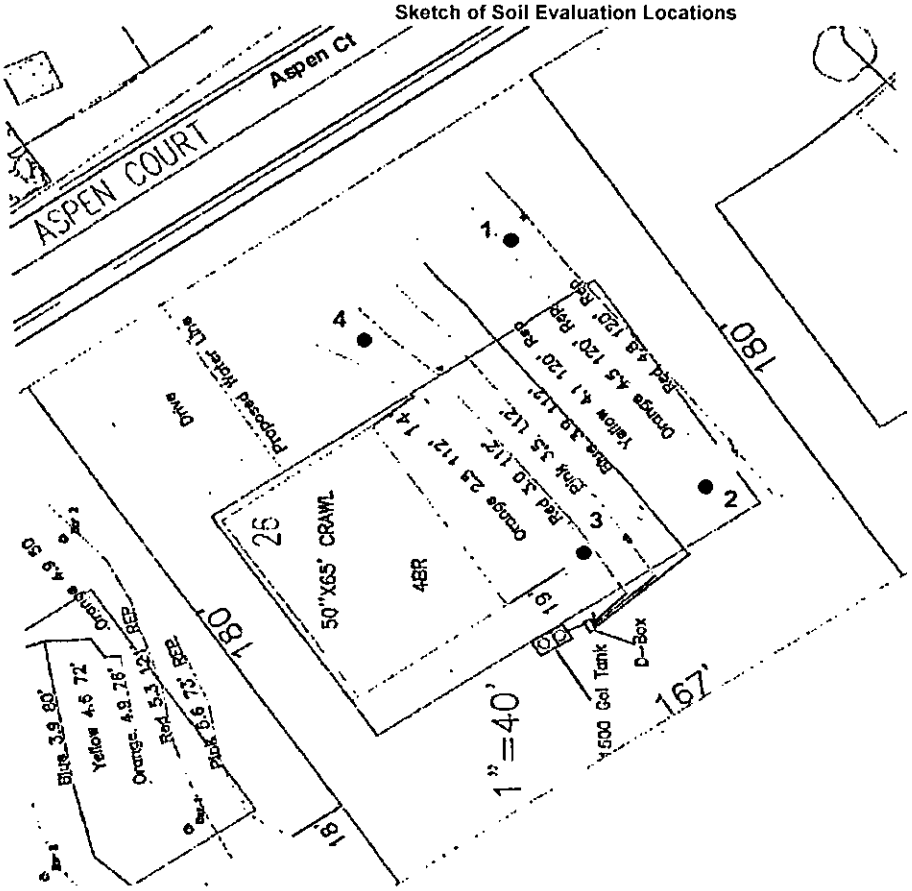


COMMENTS:

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				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 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



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

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30007058 GWS File #: 9017B Tax Parcel #: 139-281-01

- 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):** 10/17/2019

Type of Installation: Residential - New System Lot Number: 26

Structure Type: HOUSE Size (ft^2): 2800 # Bedrooms: 4 # Occupants: 4

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: Accepted **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1309	Total Trench Length (ft):	436
Maximum Trench Depth (in):	30	Depth of Media (in):	12	Distribution Device:	Distribution Box		

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

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	873	Total Trench Length (ft):	291
Maximum Trench Depth (in):	30	Depth of Media (in):	N/A	Distribution Device:	Manifold (LPP Distr		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Shelby Ledford

Signature: Shelby Ledford

Date Issued: 10/17/2014

Owner/Legal Agent: MAX THOMASON
Print Name

Signature: Max Thomason

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

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30007058 GWS File #: 9017B

IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The septic system shall be located at least 10 feet from any foundation drain.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Shelby Ledford

Signature: Shelby Ledford

Date Issued: 10/17/2014

Owner/Legal Agent: MAX THOMASON
Print Name

Signature: Max Thomason

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

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30007058** GWS File #: **9017B** Tax Parcel #: **139-281-01**

- 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):** 10/17/2019

Type of Installation: Residential - New System Lot Number: 26

Structure Type: HOUSE Size (ft^2): 2800 # Bedrooms: 4 # Occupants: 4

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: Accepted **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1309	Total Trench Length (ft):	436
Maximum Trench Depth (in):	30	Depth of Media (in):	12	Distribution Device:	Distribution Box		

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

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	873	Total Trench Length (ft):	291
Maximum Trench Depth (in):	30	Depth of Media (in):	N/A	Distribution Device:	Manifold (LPP Distri		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Shelby Ledford Owner/Legal Agent: _____
Print Name

Signature: Shelby Ledford Signature: _____

Date Issued: 10/17/2014

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

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30007058** GWS File #: **9017B**

IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The septic system shall be located at least 10 feet from any foundation drain.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Shelby Ledford

Signature: Shelby Ledford

Date Issued: 10/17/2014

Owner/Legal Agent: _____
Print Name

Signature: _____

Attached is a proposed design for a 4 bedroom single family residence gravity dosed accepted 25% reduction system to serve lot 26 at Oakbridge @ Waterleaf Mecklenburg County, North Carolina.

Contents: **Page**

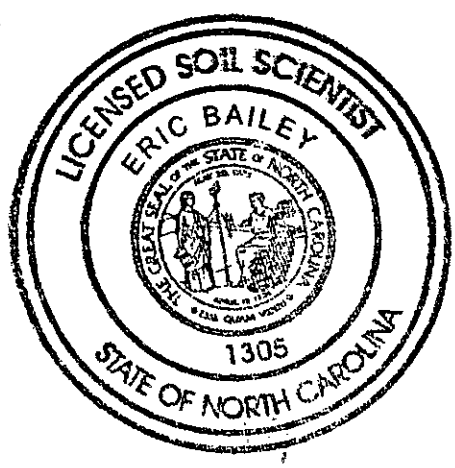
Information for the Installer---------- 1

Design Information
Layout Specifications---------- 2
Site Plan---------- 3

Septic Tank Diagram---------- 4

Maintenance of Septic Systems---------- 5-8

Sep-14
Design By: E. Bailey



GWS Septic System Design Review

GWS File #: 90173 **Approved** ☐ **Disapproved**

Design Review: ☑ ☐

Field Review: ☑ ☐

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

OWS septic system design review

OWS Life #: _____ Approved Disapproved

Design Engineer: _____ ☐ ☐

☐ ☐

INFORMATION FOR THE INSTALLER:

- The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.
- Tanks shall be approved by DEHNR, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- Low ground pressure equiptment is recommended for installation
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Septic tank riser shall be a minimum of 6" above finished grade.(recommended)
- System is specified as a 25% reduction accepted system
  Repair is specified as an Gravity PPBPS installation
  System should be instaled in accordance with the **.1900 rules**
  System to be 10' from property line, 10' from water line

Oakbridge @ Waterleaf lot 26

LAYOUT FOR 4 BEDROOM HOME — Sep-14

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LENGTH
TBM		0.0			100.0		
INSTR. 1			100.0				
			SYSTEM				
1	Orange			2.50	97.5	112	112
2	Red			3.00	97.0	112	112
3	Pink			3.50	96.5	112	112
4	Blue			3.90	96.1	112	112
			REPAIR			**448**	**448**
5	Yellow			4.10	95.9	120	
6	Orange			4.50	95.5	120	
7	Red			4.80	95.2	120	
		Soil			**Total**	**360**	

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	Design LTAR	DISTRIBUTION	Trench Depth
SYSTEM	448	0.275	Accepted 25%	0.267	D-Box	30
REPAIR	360	0.275	PPBPS		~~D-Box~~ LPP distribution	30

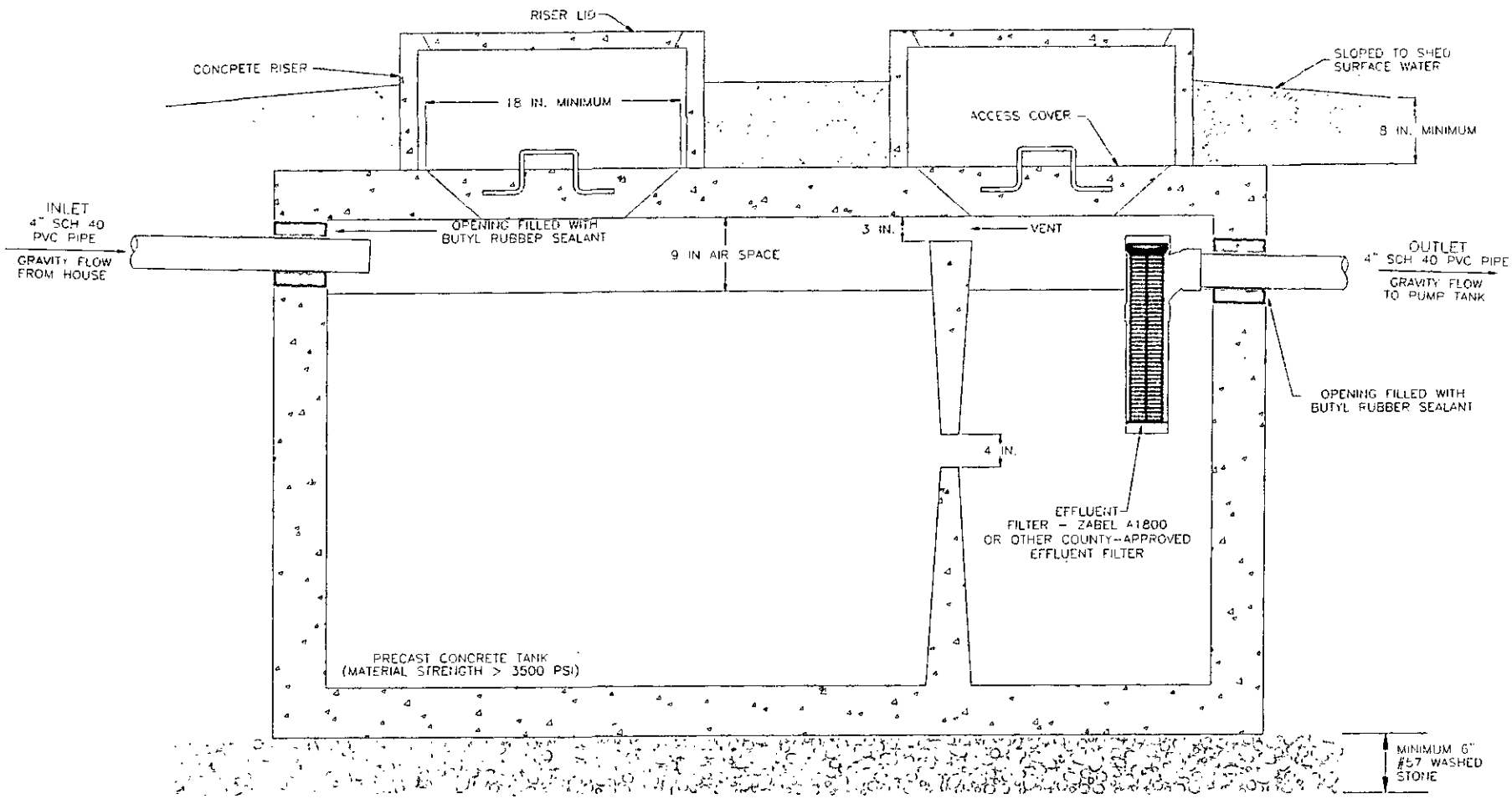
**TBM is assumed to be 100'

**All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**BS and FS indicate rod readings

** Repair is shown with more line than required



NOTES

1. TANK DIMENSIONS VARY BY MANUFACTURER.

1500 GALLON SEPTIC TANK

PROJECT NO: 4591	PROJECT NAME: **Oakbridge @ Waterleaf lot 26**
PROJECT MGR:	
SCALE: NTS	SHEET TITLE: SEPTIC TANK DIAGRAM

15A NCAC 18A .1959 PRIVY CONSTRUCTION

An "approved privy" shall consist of a pit, floor slab, and seat assembly housed in a building which affords privacy and reasonable protection from the weather.

(1) The pit shall consist of an excavation at least 42 inches square and in no case shall the bottom of an excavation be closer than one foot from the seasonally high water table or rock.

(2) The pit shall be properly curbed to prevent caving. In sandy or loose soil, the curb should extend the full depth of the pit. In tight soils, partial curbing is acceptable if it prevents caving.

(3) The privy floor slab shall be constructed of reinforced concrete. Where it is impractical to secure or construct reinforced concrete floor assemblies, wood construction shall be acceptable provided the floor slab is made of rough sub-flooring and covered with tight tongue-and-groove flooring or other type flooring materials to provide strength and prevent entrance of flies and mosquitoes to the privy pit. Where wood construction is used, floors shall be anchored to at least four-inch by four-inch sills.

(4) Wood used for riser, seat assemblies, and the floor slab shall be tongue-and-groove or plywood (exterior or marine) material.

(5) Privies shall not be used for the disposal of water-carried sewage.

History Note: *Authority G.S. 130A-335(e);*
Eff. July 1, 1982;
Amended Eff. December 1, 1990.

15A NCAC 18A .1960 MAINTENANCE OF PRIVIES

(a) Any person owning or controlling the property upon which a privy is located shall be responsible for these requirements:

(1) The privy building shall afford a reasonable degree of protection from bad weather conditions.

(2) When the pit becomes filled to within 18 inches of the top of the ground, the privy building shall be moved to a new pit and the old pit completely covered with earth.

(3) If the pit caves in, a new pit shall be provided.

(b) The tenant or person occupying the property shall be responsible for these requirements:

(1) The walls, floors, and seat of the privy and grounds immediately adjacent to the building shall be kept in a clean and decent condition.

(2) Fowl and other animals shall not be harbored in the privy building.

(3) Seat cover shall be hinged and closed at all times when the privy is not in use.

(4) Flies shall be excluded from the pit at all times.

(5) Ashes, garbage, and trash shall be kept out of the pit.

History Note: *Authority G.S. 130A-335(e) and (f);*
Eff. July 1, 1982;
Amended Eff. January 1, 1990.

15A NCAC 18A .1961 MAINTENANCE OF SEWAGE SYSTEMS

(a) Any person owning or controlling the property upon which a ground absorption sewage treatment and disposal system is installed shall be responsible for the following items regarding the maintenance of the system:

(1) Ground absorption sewage treatment and disposal systems shall be operated and maintained to prevent the following conditions:

(A) a discharge of sewage or effluent to the surface of the ground, the surface waters, or directly into groundwater at any time; or

(B) a back-up of sewage or effluent into the facility, building drains, collection system, or freeboard volume of the tanks; or

(C) a free liquid surface within three inches of finished grade over the nitrification trench for two or more observations made not less than 24 hours apart. Observations shall be made greater than 24 hours after a rainfall event.

The system shall be considered to be malfunctioning when it fails to meet one or more of these requirements, either continuously or intermittently, or if it is necessary to remove the contents of the tank(s) at a frequency greater than once per month in order to satisfy the conditions of Parts (A), (B), or (C) of this Paragraph. Legal remedies may be pursued after an authorized agent has observed and documented one or more of the malfunctioning conditions and has issued a notice of violation.

(2) 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.

(b) System management in accordance with Tables V(a) and V(b) of this Rule shall be required for all systems installed or repaired after July 1, 1992. After July 1, 1992, system management in accordance with Tables V(a) and V(b) shall be required for all existing Type V and Type VI systems.

(c) No Improvement Permit or Construction Authorization shall be issued for Type IV, Type V, or Type VI systems, unless a management entity of the type specified in Table V(b) is specifically authorized, funded, and operational to carry out this management program in the service area where the proposed system is to be located.

(d) A local health department may be the public management entity only for systems classified Type IV, V(a) and V(b) and only when specifically authorized by resolution of the local board of health.

(e) A contract shall be executed between the system owner and a management entity prior to the issuance of an Operation Permit for a system required to be maintained by a public or private management entity, unless the system owner and certified operator are the same. The contract shall include the specific requirements for maintenance and operation, responsibilities of the owner and system operator, provisions that the contract shall be in effect for as long as the system is in use, and other requirements for the continued proper performance of the system. It shall also be a condition of the Operation Permit that subsequent owners of the system execute such a contract.

(f) Inspections of the system shall be performed by a management entity at the frequency specified in Table V(b). The management entity shall report the results of their inspections to the local health department at the specified reporting frequency. However, where inspections indicate the need for system repairs, the management entity shall notify the local health department within 48 hours in order to obtain a Construction Authorization for the repairs.

(g) The management entity shall be responsible for assuring routine maintenance procedures and monitoring requirements in accordance with the conditions of the Operation Permit and the contract.

(h) Sewage systems with multiple components shall be classified by their highest or most complex system type in accordance with Table V to determine local health department and management entity responsibilities.

(i) Sewage systems not identified in this Rule shall be classified by the Division of Environmental Health after consultation with the appropriate commission governing operators of pollution control facilities.

(j) The local health department shall routinely review the performance and operation reports submitted in accordance with Table V(b) of this Rule and shall perform an on-site inspection of the systems as required in Table V(a).

(k) The certified operator shall hold a valid and current certificate from the appropriate commission, and nothing in this Section shall preclude any requirements for system operators, in accordance with Article 3 of G.S. 90A.

TABLE V(a)

LOCAL HEALTH DEPARTMENT RESPONSIBILITIES

System Classification	System Description	Permits Required	Minimum System Review Frequency
Type I	a. Privy b. Chemical toilet c. Incinerating toilet d. Other toilet system e. Grease trap	Improvement Permit, Construction Authorization, and Operation Permit	N/A
Type II	a. Conventional septic system	Improvement	N/A

		(single-family or 480 GPD or less) b. Conventional septic system with 750 linear feet of nitrification line or less c. Conventional system with shallow placement	Permit, Construction Authorization, and Operation Permit	
___ only)	Type III	a. Conventional septic system > 480 GPD (excluding single-family residence) b. Septic system with single effluent pump or siphon c. Gravity fill system d. Dual gravity field system e. PPBPS system, gravity dosed f. Large diameter pipe system g. Other non-conventional trench systems	Improvement Permit, Construction Authorization, and Operation Permit	5 yrs. (IIIb
___	Type IV	a. Any system with LPP distribution b. System with more than 1 pump or siphon	Improvement Permit, Construction Authorization, and Operation Permit	3 yrs.
___	Type V	a. Sand filter pretreatment system b. Any > 3,000-GPD septic tank system with a nitrification field designed for > 1500 GPD c. Aerobic Treatment Unit (ATU) d. Other mechanical, biological, or chemical pretreatment plant (< 3000 GPD)	Improvement Permit, Construction Authorization, and Operation Permit	12 mos.
___	Type VI	a. Any > 3,000 GPD system with mechanical, biological, or chemical pretreatment system plant b. Wastewater reuse/recycle	Improvement Permit, Construction Authorization, and Operation Permit	6 mos.

TABLE V(b)

MANAGEMENT ENTITY RESPONSIBILITIES

System Classification	Management Entity	Minimum System Inspection/Maintenance Frequency	Reporting Frequency

	Type I	Owner	N/A	N/A
	Type II	Owner	N/A	N/A
	Type III	Owner	N/A	N/A
	Type IV	Public Management Entity with a Certified Operator or a private Certified Operator	2/yr.	12 mos.
	Type V	Public Management Entity With a Certified Operator or a private Certified Operator	a. 2/yr (0-1500 GPD) 4/yr (1500-3000 GPD) 12/yr (3000-10000 GPD) 1/wk (> 10000 GPD) b. 12/yr (3000-10000 GPD) 1/wk (> 10000 GPD) c. 4/yr. d. 12/yr.	6 mos.
	Type VI	Public Management Entity With a Certified Operator	a. 1/wk(3000-10000 GPD) 2/wk(10000-25000 GPD) 3/wk(25000-50000 GPD) 5/wk(> 75000 GPD) b. 12/yr.	3 mos.

(l) A sewage collection, treatment, and disposal system that creates or has created a public health hazard or nuisance by surfacing of effluent or discharge directly into groundwater or surface waters, or that is partially or totally destroyed shall be repaired within 30 days of notification by the state or local health department unless the notification otherwise specifies a repair period in writing. If a system described in the preceding sentence has for any reason been disconnected, the system shall be repaired prior to reuse. The state or local health department shall use its best professional judgement in requiring repairs that will reasonably enable the system to function properly. If, for any reason, a sewage collection, treatment, and disposal system is found to be nonrepairable, or is no longer required, the system shall not be used, and may be required to have any contents removed, collapse any components and backfill, or otherwise secured as directed by the authorized agent to protect the public health and safety.

(m) When necessary to protect the public health, the state or local health department may require the owner or controller of a malfunctioning system to pump and haul sewage to an approved wastewater system during the time needed to repair the system.

History Note: *Filed as a Temporary Amendment Eff. July 3, 1991, for a period of 180 days to expire on December 30, 1991;*
Filed as a Temporary Amendment Eff. June 30, 1990, for a period of 180 days to expire on December 27, 1990;
Authority G.S. 130A-335(e),(f);
Eff. July 1, 1982;
Amended Eff. August 1, 1991; October 1, 1990; January 1, 1990; August 1, 1988;
Temporary Amendment Eff. January 20, 1997;

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet 1 *of* 1
PROPERTY ID #: _____
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: True Homes _____ APPLICATION DATE _____
ADDRESS 2649 Brekonridge Centre Dr Monroe. NC 28110 DATE EVALUATED: 8-24-14
PROPOSED FACILITY: 4 bedroom Residence PROPOSED DESIGN FLOW (.1949): 480gpd PROPERTY SIZE: ___ ac
LOCATION OF SITE: Oakbridge at Waterleaf lot 26 PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private X Public Well ☐ Spring ☐ Other _____
EVALUATION METHOD: XAuger Boring Pit ☐ Cut TYPE OF WASTEWATER: ☒Sewage ☐ Industrial Process ☐ Mixed

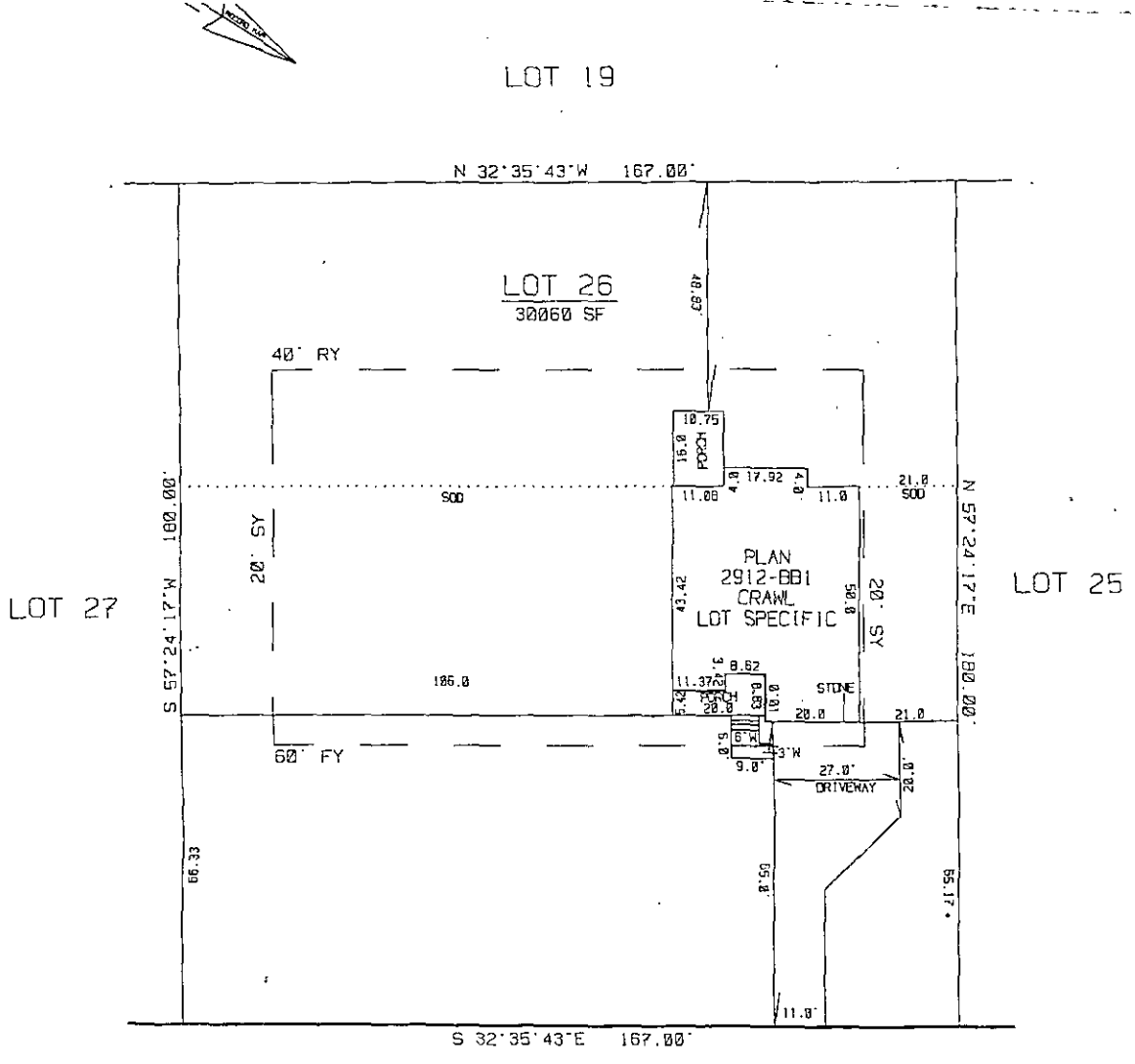
PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS 6%	0-6	WFG/CL	SS SP FR/SEXP	>48"	48"	NA	S	PS IV 0.3
		6-42	MMSBK/C	SS SP FI/SEXP					
		42-48	WFSBK/CL	SS SP FR/SEXP					
2	LS 5%	0-6	WFSBK/CL	SS SP FR/SEXP	>48"	48"	NA	S	PS IV 0.275
		6-38	MMSBK/C	SS SP FI/SEXP					
		38-48	WFSBK/CL	SS SP FR/SEXP					
3	LS 5%	0-6	WFG/CL	SS SP FR/SEXP	>48"	48"	NA	S	PS IV 0.3
		6-32	MMSBK/C	SS SP FI/SEXP					
		32-48	WFSBK/CL	SS SP FR/SEXP					
4	LS 5%	0-5	WFG/CL	SS SP FR/SEXP	>48"	48"	NA	S	PS IV 0.3
		5-35	MMSBK/C	SS SP FI/SEXP					
		35-48	WFSBK/CL	SS SP FR/SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	448 LF	360 LF
System Type(s)	IIIg	IIIe
Site LTAR	0.275	0.275

OTHER FACTORS (.1946): PS _____
SITE CLASSIFICATION (.1948): PS _____

EVALUATED BY: EB _____
OTHER(S) PRESENT: _____

COMMENTS: _____



ASPEN COURT

60' PUBLIC R/W

PRELIMINARY SQ. FT.

TOTAL SF TO B/C: 32054 SF

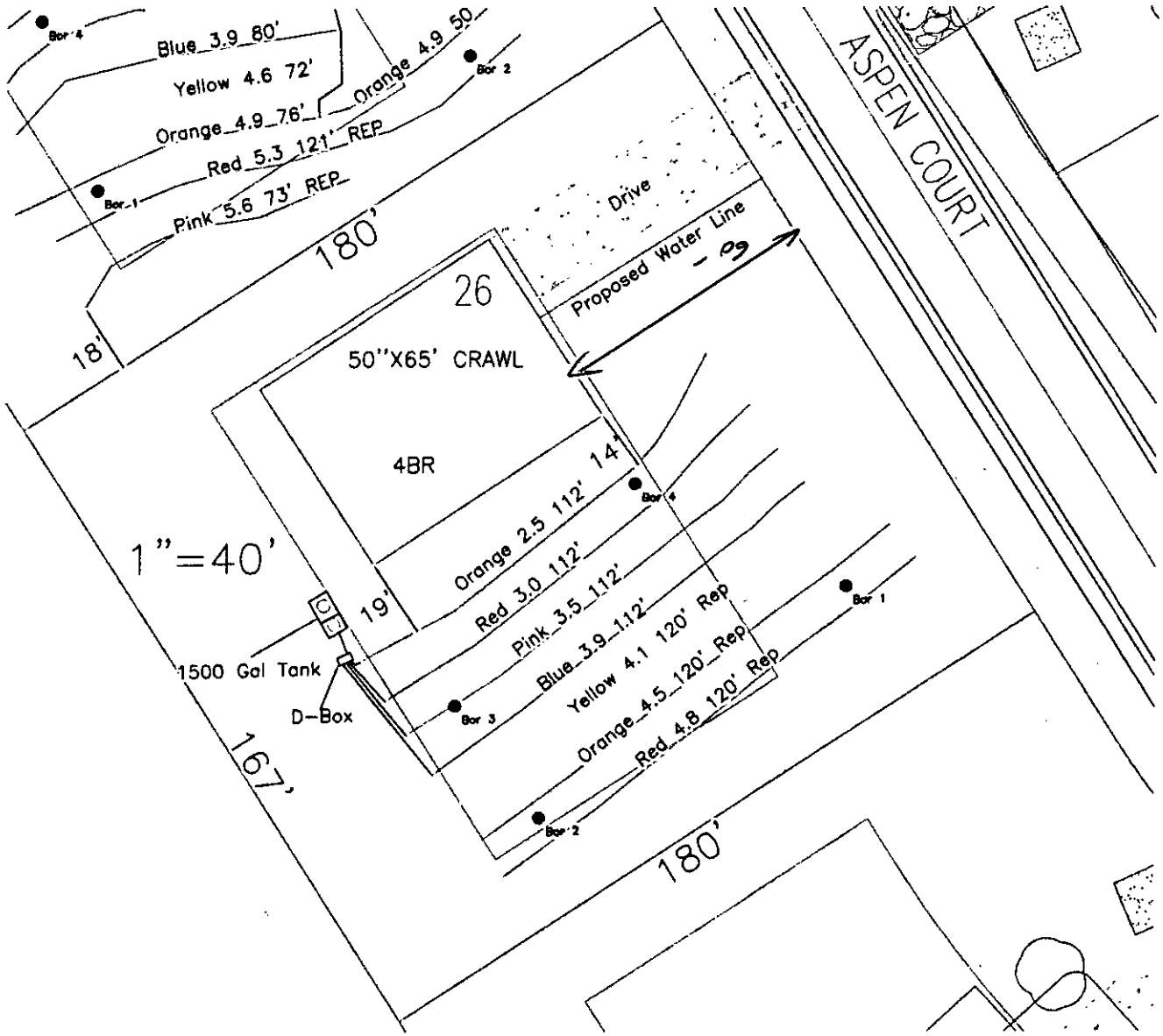
5' PUBLIC S/W: 780 SF IF APPLIED

HOUSE: 2224 SF
DRIVE: 1163 SF HOUSE-R/W
141 SF R/W-B/C
SIDEWALK: 63 SF
PATIO: 9 SF
SOD TO B/C: 17113 SF

TRUE HOMES

PLOT PLAN

OF


Bor 4
Blue 3.9 80'
Yellow 4.6 72'
Orange 4.9 76'
Red 5.3 121' REP
Pink 5.6 73' REP
Bor 1
Bor 2
Orange 4.9 50
180'
18'
26
50''X65' CRAWL
4BR
Drive
Proposed Water Line
ASPEN COURT
1''=40'
19'
1500 Gal Tank
D-Box
Bor 3
Bor 4
Orange 2.5 112' 14'
Red 3.0 112'
Pink 3.5 112'
Blue 3.9 112'
Yellow 4.1 120' Rep
Orange 4.5 120' Rep
Red 4.8 120' Rep
Bor 1
Bor 2
167'
180'

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 # 90173 App # 7058 Tax Parcel # 139-281-101

Property Owner: True Homes

Job Location Address: 8521 Aspen Court

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.**

Bradley W. Hallman 10/29/15
Authorized Agent Date

Stevens Septic
Others Present

Lot 26 904083 901713

GCM3
Engineering, P.L.L.C.
Civil & Structural Design Services

3031 Spring Fancy Lane
Indian Trail, N.C. 28079
Phone 704.821.4205
Fax 704.821.3714
Email GCM3@windstream.net.

December 14, 2015

Mecklenburg County Health Department
Groundwater & Wastewater Services
700 N. Tryon Street, Suite 211
Charlotte, N.C. 28202
Attn: Mr. Jacob Pressley

Re: On-Site Septic System
Site Address: 8521 Aspen Court (P.I.D. # 13928218)
GCM3 Project 16-003

Dear Sir:
As you requested, we would offer the following:

Engineers Certification

I, G. Carter Moore III, P.E, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to periodically observe the construction of the referenced project at Site Address: 8521 Aspen Court (P.I.D. #13928218) for the Permittee, hereby state that to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the approved Permit, approved plans, specifications, and other supporting materials.

Signature: G. Carter Moore III

Date: 12/14/15

Registration Number: 16835

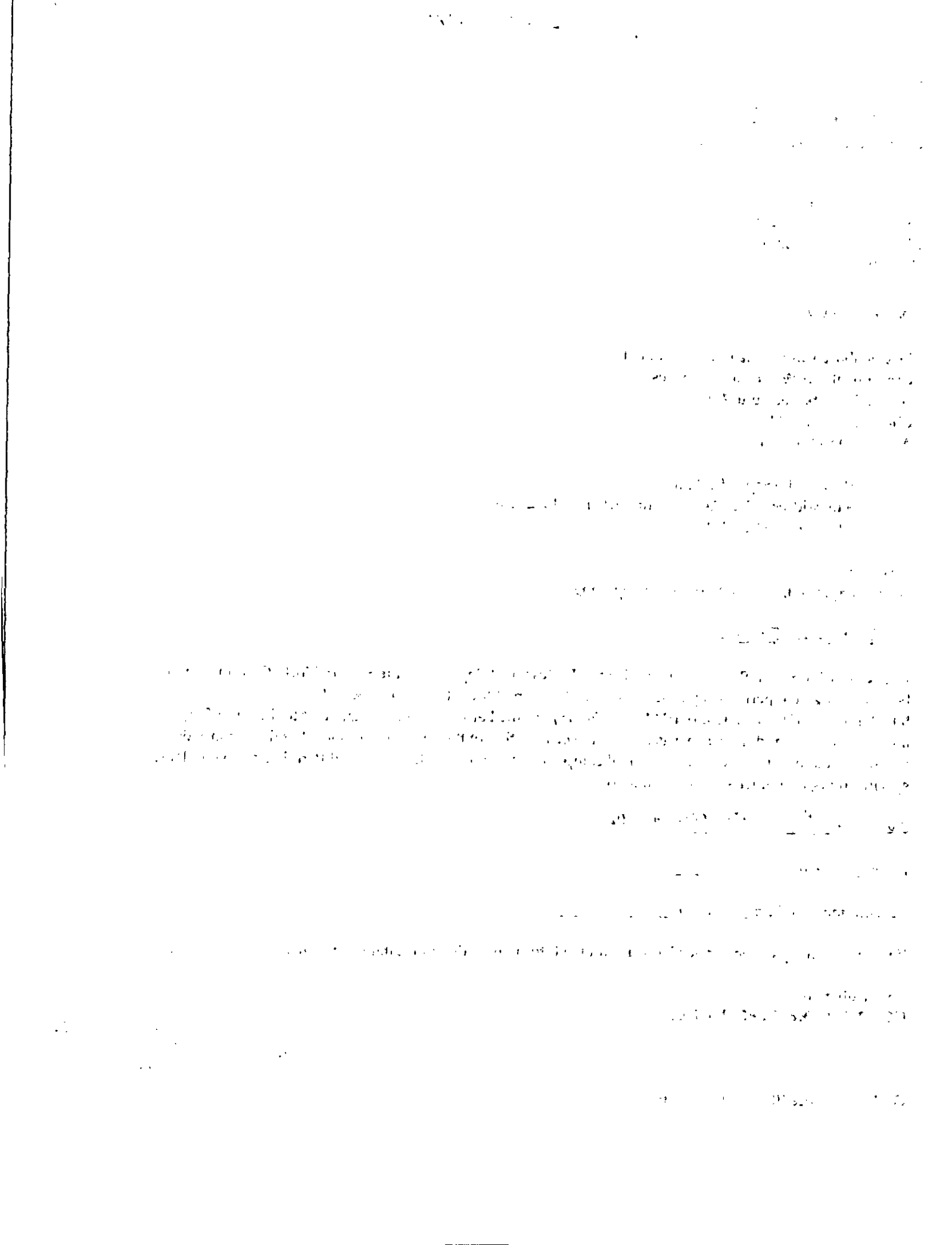
If you have any questions or need any additional information, do not hesitate to call me.

Very truly yours,
GCM3 ENGINEERING, P.L.L.C.

NORTH CAROLINA PROFESSIONAL SEAL 16835 ENGINEER GALARD CARTER MOORE, III

G. Carter Moore III
12/14/15

G. Carter Moore III, N.C. P.E. 16835



Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 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 #: 9017 B Permit #: 7058 Tax Parcel #: 139-282-18

Property Owner: True Homes

Job Location Address: 8521 Aspen Ct.

City: Charlotte State: NC Zip Code: 28227

Operation Permit Issuance Date: 12/16/15 Contractor Name: Chris Stevens

Permitted Design Flow: 480 GPD Liquid Capacity of Dosing Tank: N/A gallons

Liquid Capacity of Septic Tank: 1500 gallons Manufacture Dellinger 9-30-15 Effluent Pump Model: N/A
STB-338-1500

Drainfield Installation ☐ N/A

Trench Depth: 30" inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 440 feet

# of Lines: 4 @ 110 feet

Depth of Media: 12" inches (Type) Arc 36

Depth of Cover: 12"+ 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: 6' feet

Distance from Property Line: 40' feet

Distance from Water Supply Source: 10' feet

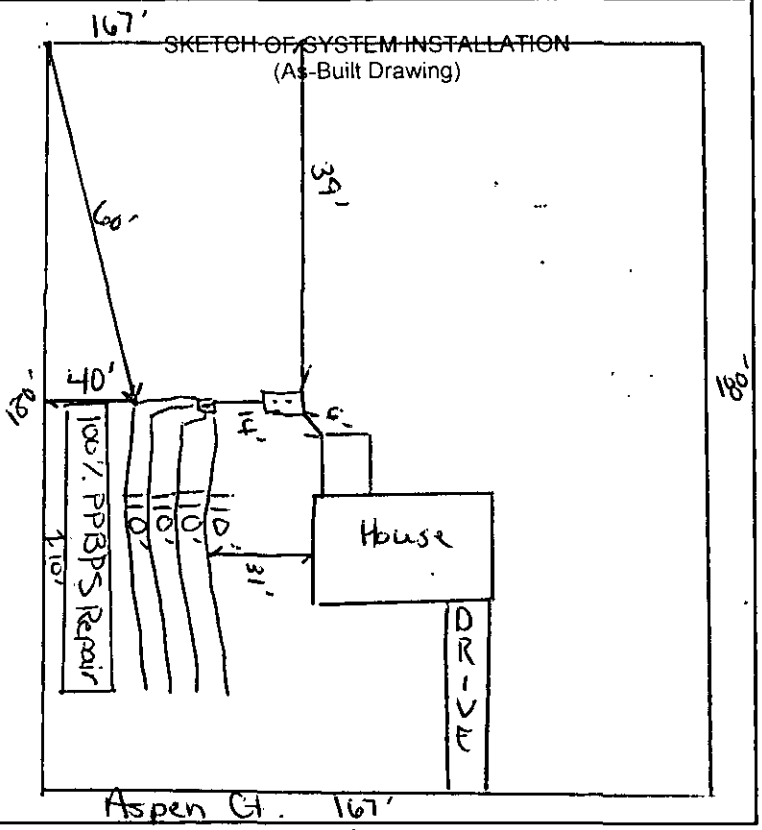
Inspection Dates

Tank(s) Inspected: 11-16-15

Excavation Inspected: 11-16-15

Pump & Controls Inspected: N/A

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



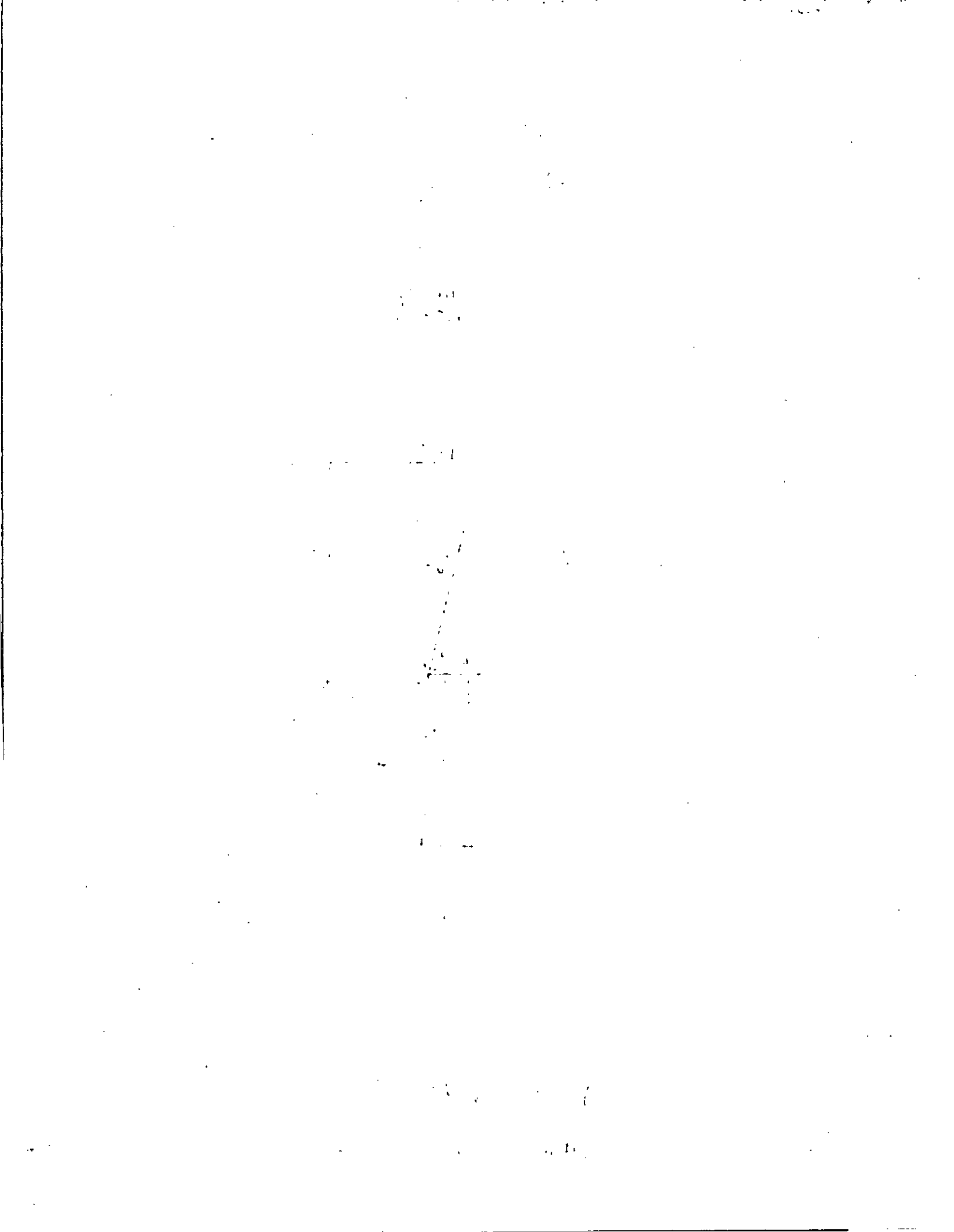
The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems"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

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

Comments: System Classification & Type: III g / Arc 36 / g / N/A / N/A

DENR Authorized Agent: April Bumgarner, Alan McKinney Signature: April Bumgarner RSS

11/19/15



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

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

File #: 9017 B Permit #: 7058 Tax Parcel #: 139 282 18

Property Owner: True Homes

Job Location Address: 8521 Aspen Ct

City: Charlotte State: NC Zip Code: 28227

OPERATION PERMIT CONDITIONS:

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

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

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

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

System Classification: IIIg

*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, Alan McKinney, RSS Date: 12/16/15

Signature: April Bumgarner

S

FEE: 200.00
DATE:6/16/2015

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9017B

PERMIT NUMBER: 30007058

PARCEL NUMBER: 13928218

JOB LOCATION INFORMATION

ADDRESS: 8521 ASPEN CT

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

ISSUED TO: True Homes LLC

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 6/16/2015

CONSTRUCTION AUTHORIZATION CONDITIONS

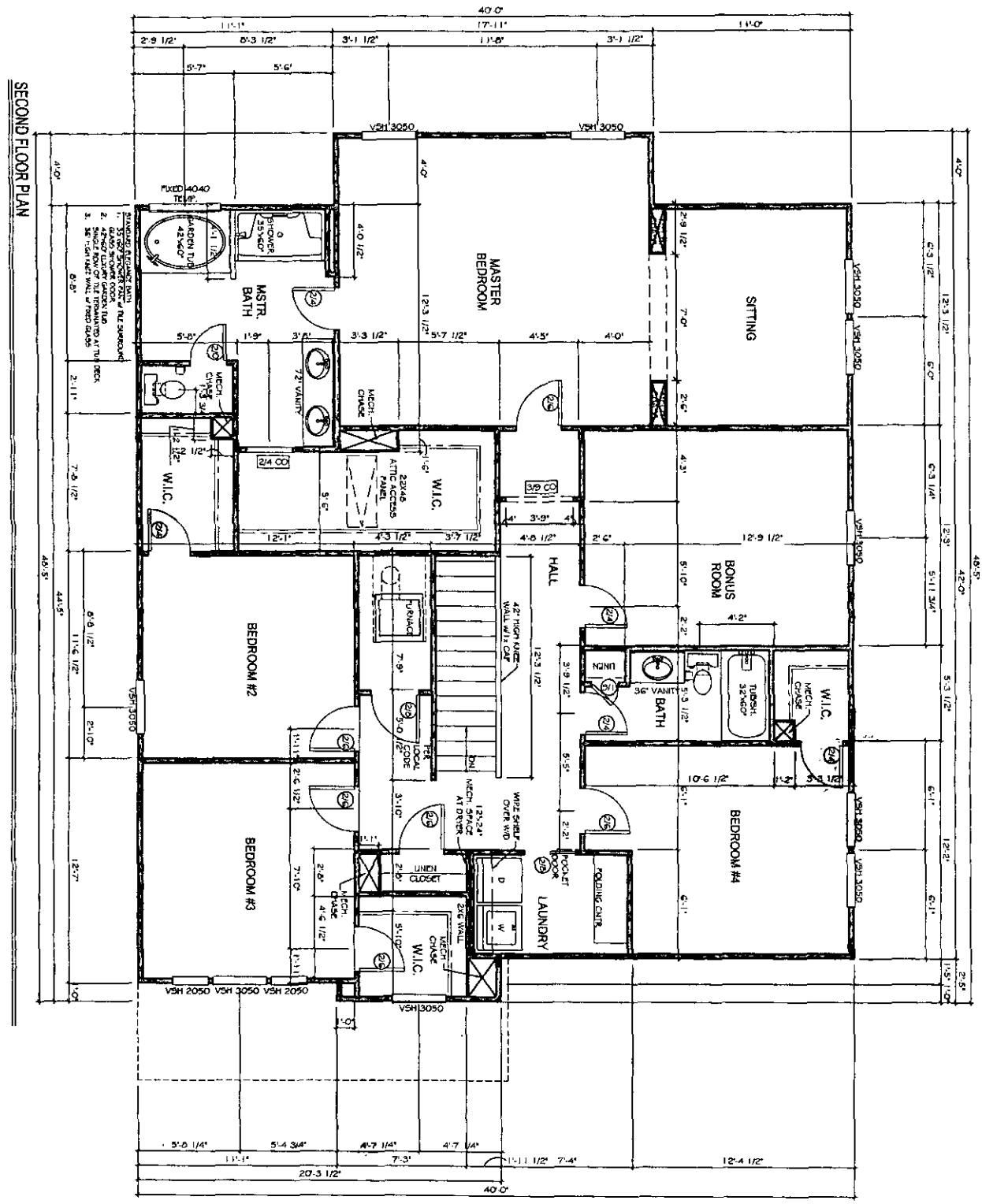
1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30007058, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

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

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

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.

SECOND FLOOR PLAN



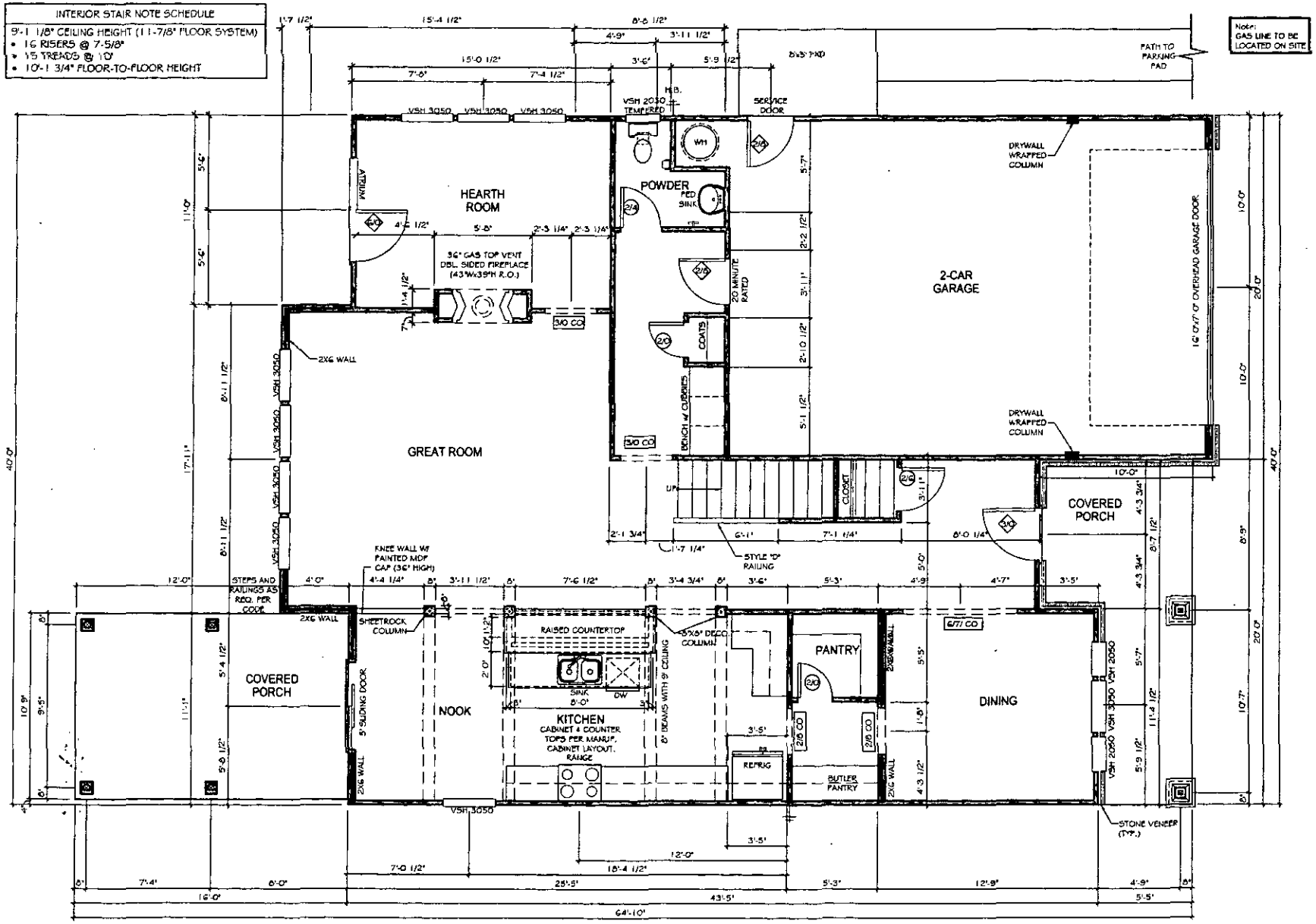
SHEET	A3.1
DRAWN BY:	V.S.
DATE:	04/10/15
SCALE:	3/16"=1'-0"
CHECKED BY:	M.F.

OAKBRIDGE AT WATERLEAF
LOT #26

THE RILEY-2912

TrueHomes
IT'S ALL ABOUT U
2649 Brekon Ridge Centre Dr.
Suite 104
Monroe, N.C. 28110
704-226-9486





TrueHomes
IT'S ALL ABOUT U
2649 Brekon Ridge Centre Dr.
Suite 104
Monroe, N.C. 28110
704-226-9486

NORTH CAROLINA PROFESSIONAL ENGINEER 29249 4/9/15 KEVIN P. MUNION

NORTH CAROLINA RESIDENTIAL STRUCTURES, P.C. No. C0595 CERTIFICATE OF AUTHORIZATION

RESIDENTIAL STRUCTURES, P.C.
3440 N. Davidson St.
Charlotte, N.C. 28205
Seal for Structural Only

OAKBRIDGE AT WATERLEAF
LOT #26

THE RILEY-2912

Copyright True Homes L.L.C. All rights reserved. This design is the property of True Homes L.L.C. and may not be used in any way without the written permission of True Homes L.L.C. Reproduction of these plans without the written permission of True Homes L.L.C. is strictly prohibited.

DRAWN BY: V.S.
DATE: 04/10/15
SCALE: 3/16"= 1'-0"
CHECKED BY: NPF

SHEET: A2.1

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	06/12/15	**Amount:**	200.00
Receipt #:	95035	**Tendered:**	200.00
Check / Auth #:	CHECK 6355	**Returned:**	0.00
Received By:	WALKEVA		

Account Information

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

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 8521 ASPEN COURT LOT 26		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:	06/12/15	**Amount:**	200.00
Receipt #:	95036	**Tendered:**	200.00
Check / Auth #:	CHECK 6355	**Returned:**	0.00
Received By:	WALKEVA		

Account Information

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

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 8521 ASHEM COURT, LOT 26		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:	09/12/14	**Amount:**	750.00
Receipt #:	90760	**Tendered:**	750.00
Check / Auth #:	CHECK 5126	**Returned:**	0.00
Received By:	SADERLW		

Account Information

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

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 3 SOIL EVALUATIONS - ASPEN CT		1	750.00	750.00

8521 Aspen Ct #250

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
	587.40		270.00	1,859.65	