IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 202633

IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4635901779

APPLICANT: Rollans Soil/Richard Koch APPLICANT ADDRESS: P.O. Box 832 Mooresville, NC 28115

SITE ADDRESS: 111 Agua Dr. Mooresville, NC 28117 PHONE: 7047466546 ALT. PHONE: 704 361-1084

SITE DIRECTIONS: Hwy 115 S. TR Langtree TR Lakeshore TL Agua lot on left

SUBDIVISION: Lakeview Shores SECTION: 2 LOT # 19 LOT AREA: .46 Ac. DESIGN FLOW: 360 gpd L.T.A.R.: .275

Septic Tank	1000	(gal)	STB	1012	Date	10-22-16	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms	3	Water Supply			
Pump Tank		(gal)	PT		Date		System Description:	Gravity - 25% Reduction			☐ Business	No. Persons	6	☒ Private			
Pump Make			Model		Serial #		Repair System Description:	X Repair Exempt / Partial			☐ Other	No. Employees		☐ Public			
# Nitrification Fields	1		# Lines	5	Linear Ft:	340+	Maintenance Agreement Required:	☐ YES	☒ NO	PPBPS	☐ Slab	☒ Crawl Space		☐ Community			
Trench Width	36"		Max. Trench Bottom Depth	30"	Gravel Depth	N/A		☒ GRAVITY	☐ PRESSURE		☐ Basement w/plumbing			☐ Basement w/o plumbing			

Comments / Conditions:

X Lot recorded 1963
85 chamber 104' from house to ST. well to ST = 74'

INITIAL SITE SKETCH

See attached, approved plan by Rollans Soil & Environmental Services, PA (dated 4-15-16)

AS BUILT SKETCH

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

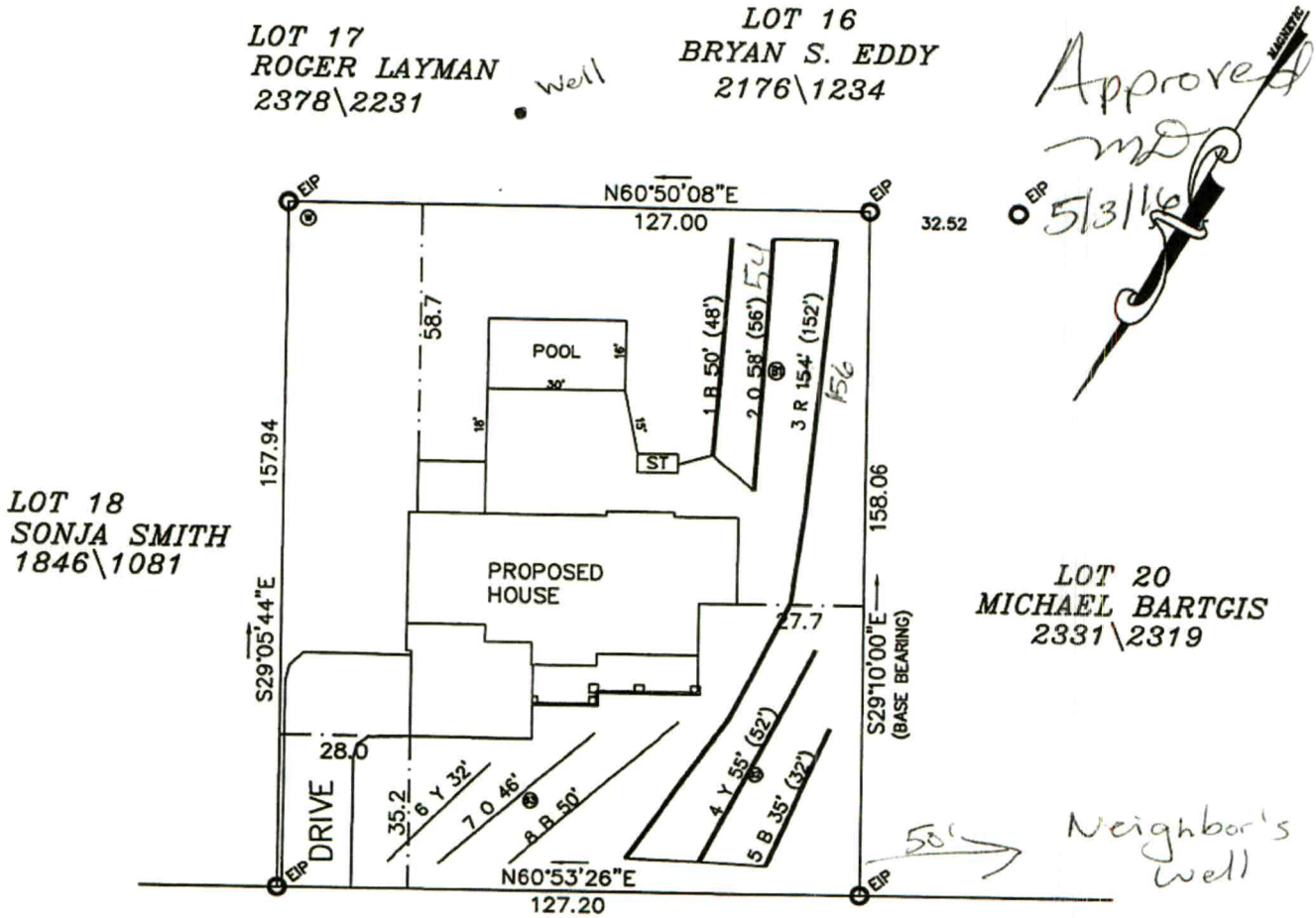
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☐ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☒ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: [signature] Date: 5/11/2016 Installed by: Steve Gordon

IMPROVEMENT PERMIT by: Maria Dolan RS Date: 5/3/16 OPERATION PERMIT by: Maria Dolan RS Date: 12/20/16

AUTHORIZATION TO CONSTRUCT by: Maria Dolan RS Date: 5/3/16 Existing System Inspected by: Date:

Health Dept. Copy - WHITE Applicant (Final Approval) - YELLOW Applicant (Conditional Approval) - PINK


LOT 17
ROGER LAYMAN
2378\2231
Well
LOT 16
BRYAN S. EDDY
2176\1234
Approved
MD
5/3/16
N60°50'08"E
127.00
32.52
EIP
58.7
POOL
1 R 50' (48')
2 Q 58' (56')
3 R 154' (152')
54
56
ST
157.94
158.06
LOT 18
SONJA SMITH
1846\1081
PROPOSED
HOUSE
27.7
S29°05'44"E
S29°10'00"E
(BASE BEARING)
LOT 20
MICHAEL BARTGIS
2331\2319
28.0
DRIVE
35.2
6 Y 32'
7 Q 46'
8 B 50'
4 Y 55' (52')
5 B 35' (32')
50'
Neighbor's
Well
N60°53'26"E
127.20
AQUA DRIVE
60' PUBLIC R/W
0'
20'
40'
100'
SCALE IN FEET

ROLLANS ***Soil & Environmental Services, PA.***
P.O. Box 832 Mooresville, NC 28115 Phone: (704) 658-1723 Fax: (704) 278-0989

Ashley Rollans, NC Licensed Soil Scientist
Mobile: (704) 746-5046
Email: rollans.ashley@yahoo.com

Attached is a proposed design for an Accepted Septic System with gravity dist. for a 3 bedroom single family residence on Lot 19, LakeView Shores, at 111 Aqua Dr. (PIN 4635901779), Iredell County, North Carolina.

Contents:

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Subdivision Plat	16
Existing Septic Permit	17

4/19/16

April 15, 2016
Project #: 01-3151
Design By: Rollans Soil & Environmental Services, PA

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 NC DENR, 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.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used 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.
- System is specified as a gravity 25% reduction (Accepted) installation.
- Partial Repair is specified as a low pressure PPBPS (50% reduction) installation.

GRAVITY ACCEPTED SYSTEM FOR WASTEWATER TREATMENT

Applicant: Rollans Soil

Address: P.O. Box 832
Mooresville, NC 28115

Phone: 704.746.5046
County: Iredell
Location: LakeView Shores Lot 19
PIN (4635901779)
Source of Wastewater Flow: 3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow: 360
System Flow: N/A

Approved
MD
5/3/16

Design Specifications

Drainfield Size: 336
Loading Rate (gpd/ft.^{2}): 0.275
Depth of Gravel in Trench: N/A
Gravel Size: N/A
Trench Depth: 30 in. Repair Trench Bottom 30 in.
Trench Width: 36 in.
Septic Tank Size: 1000

Estimated Supply Line Length: 7.8
Supply Line Diameter: 4 in. SCH 40 PVC
Supply Line Volume: 5.09
Dosing Volume: N/A
Supply Manifold: N/A
Supply Manifold Length: N/A
Supply Manifold Volume: N/A

Recommended Float Controls: N/A

Recommended Control Panel: N/A

Pressure Head: N/A
Friction Head: N/A
Elevation Head: N/A
Total Dynamic Head: N/A

Threaded Union: N/A
Gate Valves: N/A

Check Valves: N/A
Anti-Siphon Hole: N/A
Additional Comments: Soil suitability was performed by Rollans Soil & Environmental Services

LakeView Shores Lot 19

ACCEPTED SYSTEM

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.275
TOTAL AREA TRENCH BOTTOM:	1020
TOTAL LATERAL LENGTH:	340
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	300
SUPPLY LINE LENGTH:	7.8
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1000

Approved
MD
5/3/16

Approved 4 MD 5/3/16

Layout Specifications - LakeView Shores Lot 19

Project #: 01-3151

LAYOUT FOR 3 BEDROOM HOME

April 15, 2016

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	***BLUE***					***50***	***48***
2	***ORANGE***					***58***	***56***
3	***RED***					***154***	***152***
4	***YELLOW***					***55***	***52***
5	***BLUE***					***35***	***32***
6	YELLOW					32	32
7	ORANGE					46	46
8	BLUE					50	50
					Total	**480**	**468**

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	*340*	*0.275*	*ACCEPT.*	*0.275*	*25% RED*	*GRAVITY*
Repair	128	0.250	MOD.	0.250	PPBPS	LOW PRESSURE

Notes: **All measures in feet

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

****Lot recorded in 1963 - REPAIR EXEMPT**

CALCULATIONS

Location LakeView Shores

Project Number 01-3151

Lot No: 19

No. of Bedrooms 3

Design Flow 360 $^{gal}/_{day}$

LTAR 0.275 $^{gal}/_{ft^2\ day}$

PPBPS? (YES OR NO) NO

Supply Line Length 7.8 ft.

Supply Line Volume 5.0934 gal.

Required Feet of Line 300 ft.
Amount of Line from Layout 340 ft.

Gallons per Minute N/A $^{gal}/_{min}$

Required Septic Tank Capacity 1000 gal.
Septic Tank Size 1000 gal.

Panel Volume N/A gal.
# of Panels N/A
Dosing Volume N/A gal.

Tank Draw Down N/A

Pump Run Time

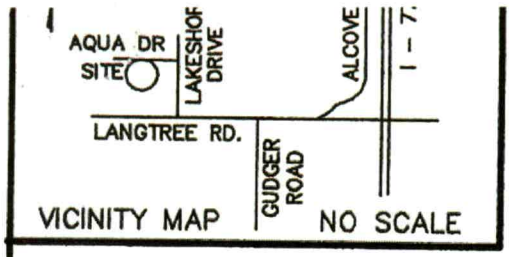
Elevation Head N/A ft.
Pressure Head N/A ft.
Friction Factor N/A ft./100 ft. *(From the interpolater.)*
Friction Head N/A ft.

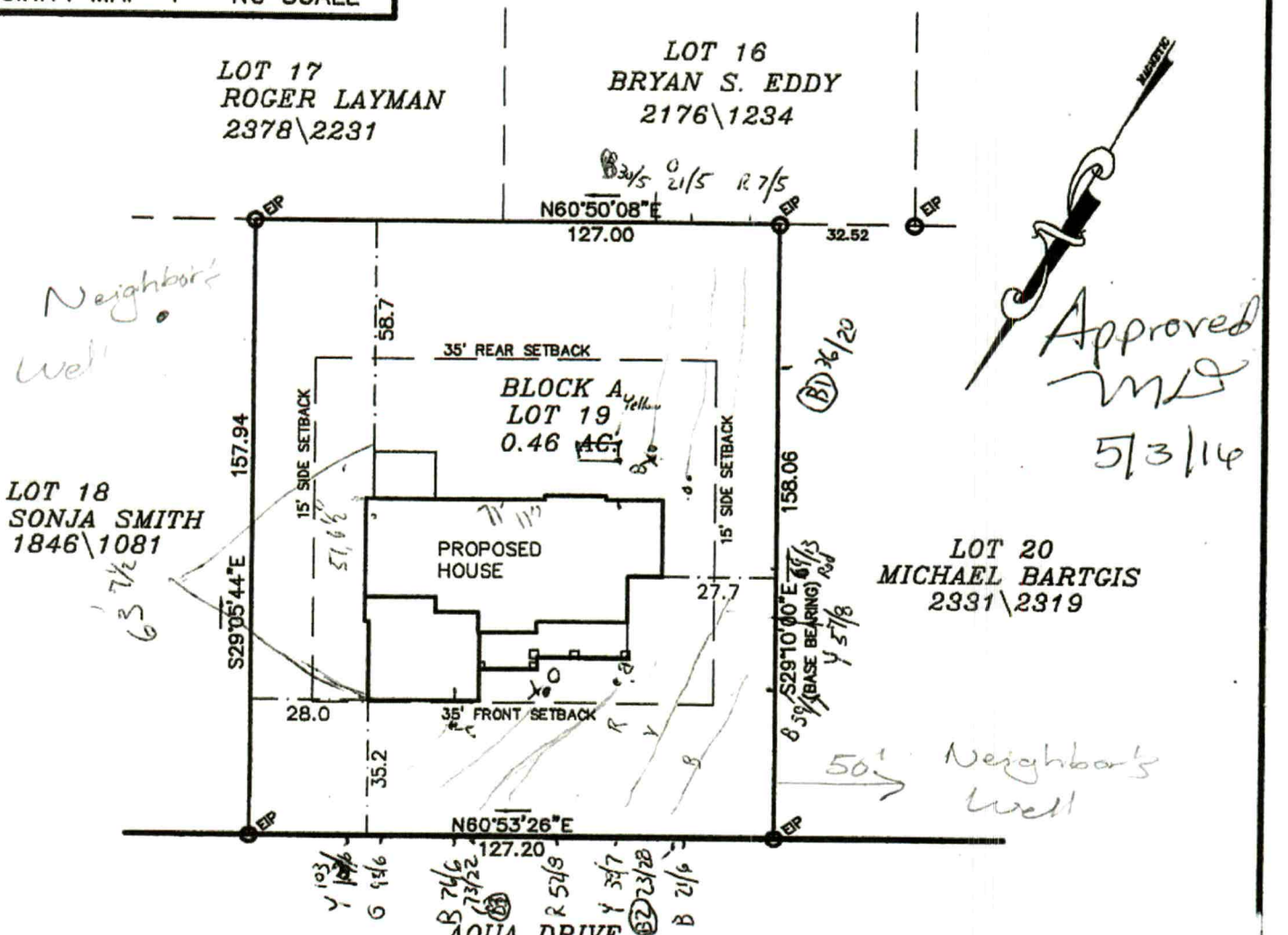
Total Dynamic Head (+15%) N/A ft.

Approved
MD
5/3/16

FRICTION FACTOR
INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42





NOTES
1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) OVERHEAD POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

0' 20' 40' 100'
SCALE IN FEET

LEGEND
P.P. = POWER POLE
POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY

PLOT PLAN SURVEY

OF

111 AQUA DRIVE

LOT 19 LAKEVIEW SHORES, BLOCK A

DAVIDSON TWSP., IREDELL CO., N.C.

SCALE 1" = 40'

ACQUIRED BY: RICHARD J. & MORIAH S. KOCH

FIELD BOOK:
FILE: LAKEVIEW SHORES 19
DC FILE:
TAX MAP NO: 4635901779

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1
PROPERTY ID #: 4635901179
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: Richard & Marian Koca
ADDRESS: 151 Gage Dr. Mooresville NC 28115
PROPOSED FACILITY: 3 BR Single-Family PROPOSED DESIGN FLOW (.1949): 360 gpd
LOCATION OF SITE: 111 Aqua Dr. Mooresville NC 28117
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

APPLICATION DATE 4/2016
DATE EVALUATED: 4/2016
PROPERTY SIZE: .46AC
PROPERTY RECORDED: 1963

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 1	L/5%	0-8	Bl Gr	Fr SS SP		48"			PS .275-.3
		8-12	BRCL wfsbk	Fr SS SP					
		12-30	RBC mmsbk	Fr SS SP					
		30-48	RC mmsbk/Mbk	Fr SS SP	Few Fe Depl 30-32"				
B 2	L/5%	0-9	BL Gr	Fr SS SP		48"			PS .275
		9-12	BRCL wfsbk	Fr SS SP					
		12-32	RBC wmsbk	Fr SS SP					
		32-48	RBC wmsbk/Mbk	Fr SS SP	Few Fe Depl 32"+				
B 3	L/5%	0-6	BL Gr	Fr SS SP		48"			PS .25
		6-15	RBC wmsbk	Fr SS SP					
		15-35	RC wmAbk	F SS P	C. Fe Depl.				
		35-42	RYC wmAbk/sbk	Fr SS SP	C. Fe Depl				
		42-48	RYCL wfsbk	Fr SS SP	Few SAP				
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	"PS"	"PS"
System Type(s)	"Accepted 25%"	"PPBPS Partial"
Site LTAR	.275	.125

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. Ashley Rollins
OTHER(S) PRESENT:

COMMENTS: Lot Recorded in 1963 and is Repair Exempt. See Attached Plat & Existing Septic Permit

Updated February 2014

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

Sheet: 1 OF 2
PIN #: 4635-90-1779
Lot #: 19
Permit #: 202626
AppID:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: MICHELLE GREIR
Applicant: MORIAH KOCH
Address: 111 AQUA DR.
Date Evaluated: 6/13/2014
Proposed Facility: SFR Design Flow (.1949) 480
Property Size: NA
Location of Site: LAKEVIEW SHORES-2-19
Property Recorded: YES
Water Supply: [ ] Public [X] Individual [X] 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	Profile Class & LTAR
AB 1	LINEAR <2%	0-18	BRSCL	SS	NA	48"	NA	48+	.3
		18-48	RD	SS					
AB 2	LINEAR <2%	0-26	SCL,W,SBK	SS	FEW YB	48"	NA	48+	.275
		26-48	RC,M,SBK	SS					
AB 3	LINEAR <2%	0-12	SCL,W,SBK	SS	NA	48"	NA	48+	.3
		12-48	RC,M,SBK	SS					
AB 4	LINEAR <2%	0-34	SCL,M,SBK	SS	NA	48"	NA	48+	.275
		34-48	SC,M,SBK	SS					

Description	Initial System	Repair System
Available Space (.1945)	PS	NOT REQUIRED
System Type(s)	LP PANEL	
Site LTAR	.275	

Other Factors (.1946):
Soil Evaluation By: BEN ALDRIDGE
Others Present: NONE
Site Classification (.1948): PS
Site Evaluation By: BEN ALDRIDGE
Others Present: NONE

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

Sheet:
File #:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941		OTHER PROFILE FACTORS				Profile Class & LTAR
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	
AB	LINEAR	0-18	SCL,W,SBK	SS					
		18-48	SC,M,SBK	SS					
5	<2%				NA	48"	NA	48+	.275

RECEIVED APR 2 1 2016

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

Paid $225.00

1. APPLICATION FOR: (✓) Improvement Permit ( ) Authorization To Construct ( ) Existing System Inspection

#202633

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application

The following optional attachments may also be submitted: ( ) Survey Plat, Scaled no more than 1 Inch = 60 Feet

Place check ( ) beside whichever is submitted if applicable ( ) Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. **Applicant Information:**

Applicant Name	Mailing Address	Home Phone #	Alternate Phone #
Rollanss o. l	P.O. Box 832 Mooresville NC 28115		704 746 5946
Owner Name	**Mailing Address**	**Home Phone #**	**Alternate Phone #**
Richard & Moriah Koch	151 Gage Drive Mooresville NC 28115		704 361 1084

4. **Property Information:**

Street Address	Subdivision Name	Section/Phase and Lot Number
111 Aqua Dr Mooresville NC 28117	Lake View Shores	Lot 19

Driving Directions: Langtree west, Rt on Lake Shore, Lt on Aqua, Lot on Left

5. **RESIDENTIAL Site Development Information:** *(Check or Complete ALL that apply)*

(✓) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
(X) Repair To Failing Septic System due to _____
( ) Other _____

Maximum Number of Bedrooms 3
Maximum Number of Occupants 6
If Expansion, Current Number of Bedrooms ____

(✓) Crawl Space Foundation?
( ) Concrete Slab Foundation?
( ) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non- Residential Site Development:
Type of Business _____
Square Footage of Building _____
Maximum Number of Employees _____
Maximum Number of Seats _____

6. **Proposed Water Supply:**

(✓) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

7. **Desired Septic System Type:** *(You may rank in order of preference, if any)* ( ) EXISTING SYSTEM installed _____ *Year*

( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional (✓) Other Accepted

8. Please Answer The Following ( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
To The Best of Your Ability: ( ) Yes (✓) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (✓) No Is the site subject to approval by any other public agency?

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.

9. Signature: _____ 4/21/16

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative:

Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship

In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:

Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form.

If there are multiple property owners, then all property owners must sign the form that designates a legal representative.

By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

I, Richard & Moriah Koch, am the legal owner(s) of the property located at 111 Aqua Drive, Mooresville, NC 28117, identified as PIN (Parcel Identification Number) 4635-90-1779, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) **Samuel Ashley Rollans,** Rollans Soil & Environmental Services and **Mike Ryon,** Pinnacle Building Services, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

Signature of Owner(s)	Date	Signature of Witness	Date
	4/19/16		4-19-16

Please return this signed form to the appropriate office:

Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

Statesville - Environmental Health
adrienne.shea@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

Paid $ 105.00 7-9-14 PH

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

Application For:

(✓) Septic Improvement Permit (X) New Well Permit ( ) Authorization to Construct ( ) Well Repair Permit ( ) Existing System Inspection ( ) Well Abandonment ( ) Septic System Repair

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS.

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted:

Place an (X) beside whichever is submitted if applicable

( ) Survey Plat, scaled no more than 1 inch = 60 feet

( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information:

Applicant Name: Michelle Grier Address: 6937 Pawtuckett Rd Phone: 704-507-1921

Owner Name: Michelle Grier Address: 6937 Pawtuckett Rd Phone: 704-507-1921

Property Information:

Street Address: 111 Aqua Dr Mooresville, NC

Subdivision Name: Lakeview Shores Section/Phase: _____ Lot Number: _____

Driving Directions: 77 South to Langtree, make a right onto Lake Shore, and next left onto Aqua Dr.

Site Development Information: *(check or complete ALL that apply)*

(X) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

Maximum Number of Bedrooms: 3
Maximum Number of Occupants: _____
( ) Swimming Pool
( ) Other Addition/Structure: _____

(X) Crawl Space Foundation
( ) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development:

Type of Business: _____
Square Footage of Building: _____
Maximum Number of Employee: _____
Maximum Number of Seats/Beds/Other: _____

Water Supply:

(X) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)*

( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

Year existing system installed: _____

Please answer the following to the best of your ability:

( ) Yes ( ) No Does the site contain any jurisdictional wetlands?
( ) Yes ( ) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes ( ) No Is the site subject to approval by any other public agency?

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.

Signature: Michelle Grier

Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

7-9-14

DATE

Michellea.grier@gmail.com

IREDELL COUNTY HEALTH DEPARTMENT

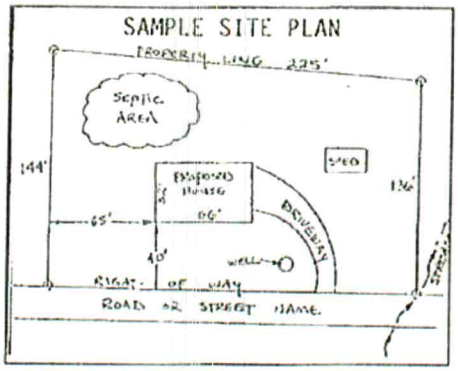
ENVIRONMENTAL HEALTH DIVISION

PAGE 2: *SITE PLAN WORKSHEET*

SEE THE "SAMPLE SITE PLAN" BELOW. *INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!*

Place an (X) beside each item as you complete the site plan:

- (X) Property Line measurements are clearly identified
- (X) All proposed structures are indicated
- (X) Front and side setbacks from property line
- (X) Preferred driveway location and well location
- (X) Area you prefer your septic system to be placed
- (X) North arrow, or other sufficient indicator of direction



Circle N/A on the following if appropriate:

Location of septic systems and wells within 100' of your property	N/A
Location of easements and rights of ways on your property	N/A
Location of any designated wetlands on the property	N/A

USE THIS SPACE TO DRAW YOUR SITE PLAN

Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site



Signature: MSK

Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

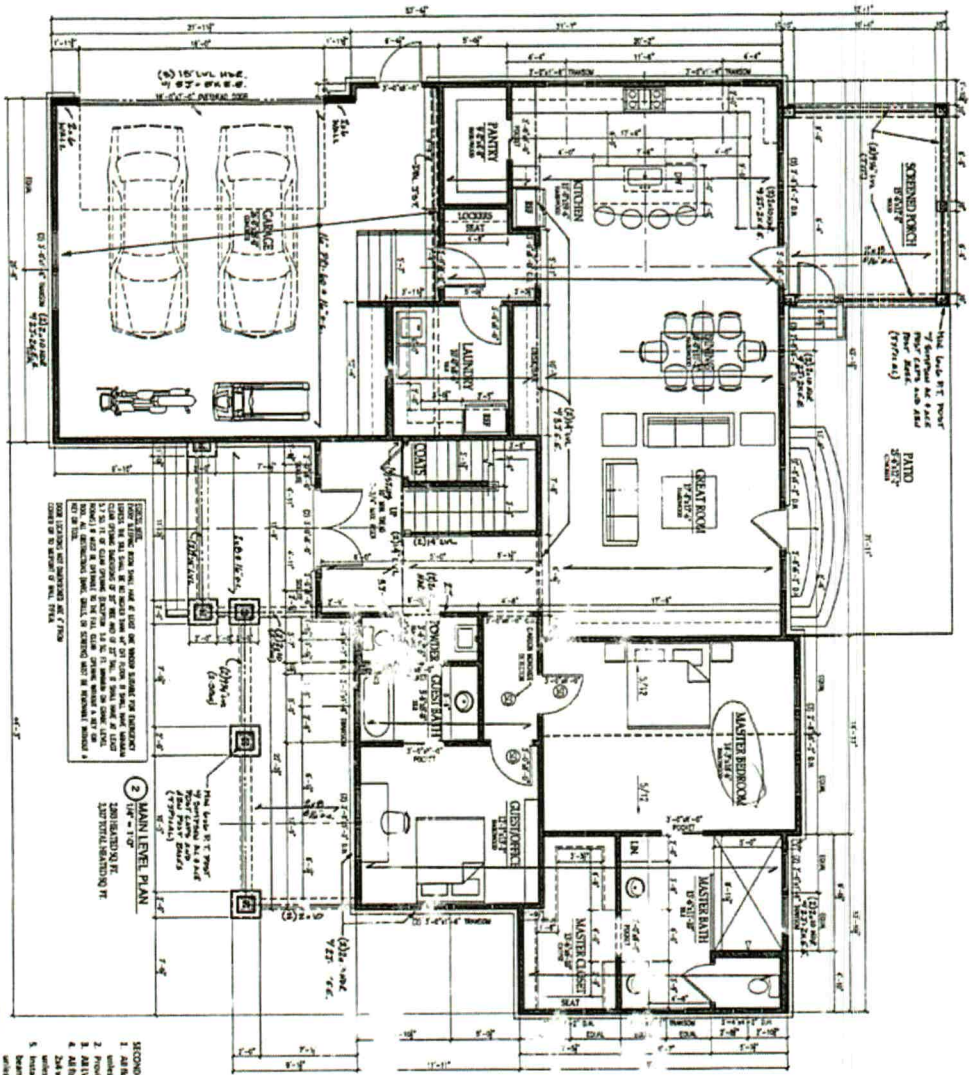
4/6/14

DATE

Acknowledgement of
Plans Submittal ONLY!

Date 5/3/16

Date 5/11/2016



SECOND FLOOR FRAMING PLAN STRUCTURAL NOTES

1. All floor joists shall be 14" PRI-40 @ 16" o.c. unless noted otherwise.
2. All studs should post to joist or beam all parallel partitions.
3. All bath floor headers shall be (2)2x12's for 2x6 walls and (2)2x10's for all 2x4 walls unless noted otherwise.
4. All bath floor headers shall be (2)2x12's for 2x6 walls and (2)2x10's for all 2x4 walls.
5. Install a minimum of (2)2x4 studs under all beams, LVL or built up beams at the first floor unless noted otherwise.

GB Engineering, PLLC
Mooresville, NC 28115
Tel: 877.2329
N.C. Firm Lic. #P-1298

A-1

CONSTRUCTION DOCUMENTS FOR A NEW RESIDENCE AT

111 AQUA DRIVE

MOORESVILLE, NORTH CAROLINA

ROBERT KOCH DESIGNS, L.L.C.

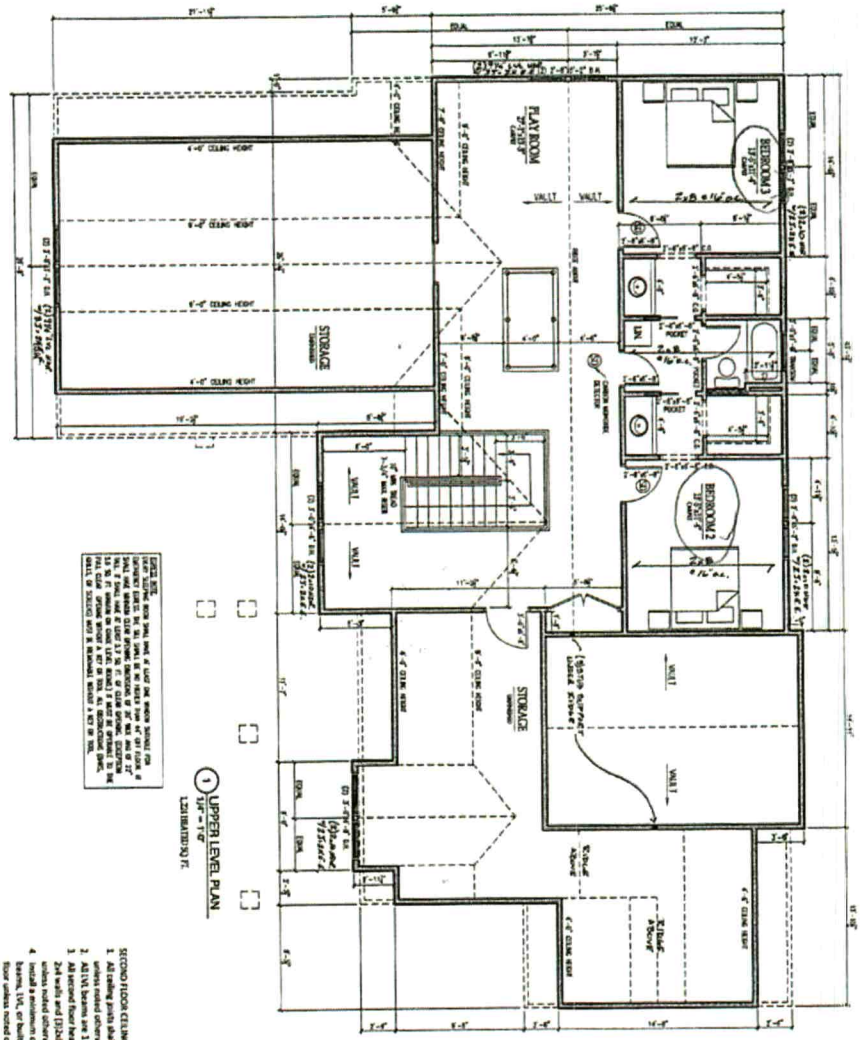
253 E. LAKE DRIVE
Decatur, GA
30030
678-464-1290

Not Issued For Construction

Acknowledgement of Plans Submittal ONLY!

Date 5/3/16

Date 5/11/16



1 UPPER LEVEL PLAN
1/4" = 1'-0"
1,251 HEATED SQ. FT.

G B Engineering, PLLC
131 Brookstone Drive
Mooresville, NC 28117
704-658-0035
N.C. Firm Lic. # P-1208

A-2

CONSTRUCTION DOCUMENTS FOR A NEW RESIDENCE AT

111 AQUA DRIVE

MOORESVILLE, NORTH CAROLINA

ROBERT KOCH DESIGNS, L.L.C.

253 E. LAKE DRIVE
Decatur, GA
404-444-1276

Not Issued For Construction

IREDELL COUNTY

PO Box 788
349 North Center St.
Statesville, NC 28677

APPLICATION NUMBER
202633
Issue Date: 04/07/2014

ZONING PERMIT

Open Space

Parcel Number	Street Address	Jurisdiction
4635901779.000	111 AQUA DRIVE, MOORESVILLE, NC 28117	MOORESVILLE

Owner Information	Applicant Information
Owner: GRIER MICHELLE	Applicant: KOCH, MORIAH S.
Address: 918 ECHO GLEN RD CHARLOTTE, NC 28213	Address: 151 GAGE DR MOORESVILLE, NC 28115
Phone:	Phone: 704-619-1645

Use Requested	Zone Code
SOIL EVAL FOR NEW SFD;WELL WILL ALSO BE NEEDED	R20

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
	35.00	35.00	15.00	15.00	CACL	X

Remarks:

PERC FOR PURCHASE

The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. The applicant further acknowledges that enforcement of deed restrictions, plat conditions and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

Applicant: _____ Date: _____

Permit Number	9299	TOTAL FEES:	$ 77.25