IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 220356

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

PIN # 4625908104

APPLICANT: ROLLANS SOIL & ENVIRONMENTAL APPLICANT ADDRESS: PO BOX 832 MOORESVILLE

SITE ADDRESS: 159 YACHT COVE LN - MOORESVILLE NC 28117 PHONE: ALT. PHONE: 704 575 1873

SITE DIRECTIONS: BSR - TL YACHT RD - TL YACHT COVE LN - AT END

SUBDIVISION: YACHT COVE SECTION: - LOT # 17 LOT AREA: .69 DESIGN FLOW: 480 L.T.A.R.: EXISTING

Septic Tank EXISTING (gal) STB Date

Pump Tank (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 5 Linear Ft: 375

Trench Width EXISTING Max. Trench Bottom Depth EXISTING Gravel Depth N/A

☑ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI

System Description: GRAVITY PRPS

Repair System Description: LP PRPS

Maintenance Agreement Required: ☐ YES ☑ NO

☑ GRAVITY ☐ PRESSURE

☑ Residence ☐ Business ☐ Other ☐ Slab ☑ Basement w/plumbing

No. Bedrooms 4 No. Persons 8 No. Employees Crawl Space

☐ Basement w/o plumbing

Water Supply: ☑ Private ☐ Public ☐ Community

Comments / Conditions:

RELOCATION OF REPAIR TO BUILD POOL

INITIAL SITE SKETCH

AS BUILT SKETCH

See Rollans Soil & Environmental Services.

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**

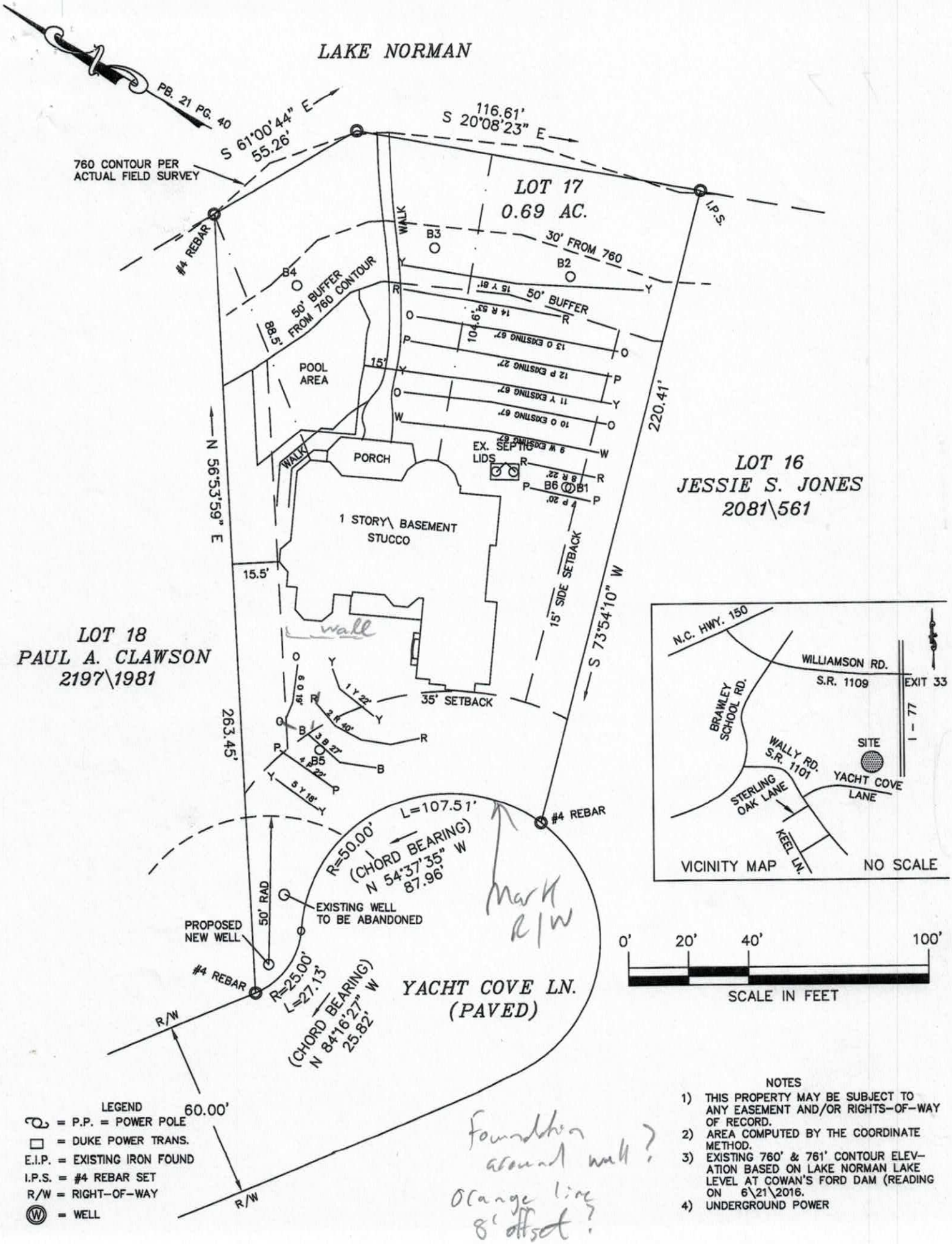
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☐ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☐ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Wendell Cg Date: 9-1-16 Installed by:

IMPROVEMENT PERMIT by: Date: OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Date: Existing System Inspected by: C Date: 8/1/16

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



LEGEND

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

NOTES

1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENT AND/OR RIGHTS-OF-WAY OF RECORD.
2) AREA COMPUTED BY THE COORDINATE METHOD.
3) EXISTING 760' & 761' CONTOUR ELEVATION BASED ON LAKE NORMAN LAKE LEVEL AT COWAN'S FORD DAM (READING ON 6\21\2016.
4) UNDERGROUND POWER

Layout Specifications - 159 Yacht Cove Lane

Project #: 01-3198

July 18, 2016

LAYOUT FOR 4 BEDROOM HOME

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	YELLOW					22	22
2	RED					40	40
3	BLUE					27	27
4	PINK					22	22
5	YELLOW					18	18
6	ORANGE					19	19
7	PINK					20	20
8	RED					22	22
9	WHITE					67	67
10	ORANGE					67	67
11	YELLOW					67	67
12	PINK					67	67
13	ORANGE					67	67
14	RED					53	53
15	YELLOW					81	81
					Total	**659**	**659**

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***335***	***0.300***	***MOD.***	***0.300***	***PPBPS***	***GRAVITY***
Repair	324	0.300	MOD.	0.300	PPBPS W/TS-II	LOW PRESSURE

Notes: **All measures in feet

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

****Existing well must be abandoned per NCDENR Well Rules**

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

Sheet 1 of 2
PROPERTY ID #: 4625 903104
COUNTY: Iredell

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

OWNER: Jon & Sandra Mertes
ADDRESS: 159 Yacht Core Lane, Mooresville NC 28117
PROPOSED FACILITY: 4Bed/4BR House PROPOSED DESIGN FLOW (.1949): 480 gpd
LOCATION OF SITE:
APPLICATION DATE: 7/19/17
DATE EVALUATED: July 2016
PROPERTY SIZE:
PROPERTY RECORDED:

WATER SUPPLY: ☑ Private ☐ Public ☑ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 1	L/2%	0-12	Fill			36	—	—	PS
		12-18	RBcnmsbk	F S SP SEXP					0.3
		18-42	RBcnmsbk	Fr SSSP SEXP					
		42-48	RBclmfsbk	Fr SSSP SEXP	-fsap				
B 2	L/3%	0-6	Bsl sr	Fr SSSP SEXP		48	—	—	PS
		6-16	BRclmfsbk	Fr SSSP SEXP					0.3
		16-42	RBcnmsbk/Abk	" " " "					
		42-48	RBclmmsbk	" " " "	-fsap				
B 3	L/4%	0-8	Fill			42	—	—	PS
		8-12	Bl sr	Fr SSSP SEXP					0.3
		12-18	RBcnmsbk/Abk	F SSP SEXP	-comp				
		18-38	RBcnmsbk/Abk	Fr SSSP SEXP					
		38-50	RBcnmsbk	" " " "	-fsap				
B 4	L/5%	0-13	Fill			37"	—	—	PS-0.25
		13-22	RBcnmsbk	F SSP SEXP	-comp, Blk deposit				
		22-50	RBcnmsbk	Fr SSSP SEXP	-fsap, f. [Fe] dep 42"				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	PP BPS	PP BPS
Site LTAR	Existing	0.3

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

COMMENTS: Recommend 26" Trench Bottom due to some fill from Original Surface (natural)

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

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

PROPERTY ID #: 4625903104
DATE OF EVALUATION: July 2016
COUNTY: Iredell

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B5	L/6%	0-7	Fill			43"	–	–	PS 0.3
		7-10	Bclw sbk	FrSSSPSEXP	-comp.				
		10-16	RBcwmsbk	FSSSPSEXP					
		16-50	RBcwmsbk	FrSSSPSEXP	-fsap				
B6	L/2%	0-12	Fill			48	–	–	PS 0.3
		12-18	RBcwmsbk	FSSPSEXP					
		18-42	RBcwmsbk	FrSSSPSEXP					
		42-60	RBclwfsbk	" " " "	-fsap				

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 Intermediate Relayout of a PPBPS Repair System for a 4 bedroom single family residence on Lot 17, Yacht Cove, 159 Yacht Cove Lane (PIN 4625908104), Iredell County, North Carolina to accommodate a pool.

Contents: **Page**

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

Design Information
Layout Specifications---------- 2

Site Plan/System Plan---------- 3

Profile Descriptions---------- 4-5

Expedited Review Process Checklist---------- 6

Zoning Permit & Receipt---------- 7-9

Application---------- 10-11

Green Sheet---------- 12

Agent Authorization Form---------- 13

Existing Operations Permit---------- 14

7/18/16

July 18, 2016
Project #: 01-3198
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.
- Existing system is specified as a gravity PPBPS installation.
- **Repair is specified as a low pressure PPBPS system w/TS-II Pretreatment.**
- **Existing Well Must be properly abandoned per NCDENR Well Rules for AC.**

RECEIVED JUL 20 2016

IREDELL COUNTY HEALTH DEPARTMENT

Paid $350.00

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

Relocation of Repair

Application For:

( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment

(✓) Septic Improvement Permit ( ) Authorization to Construct ( ) Existing System Inspection ( ) 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

220386

The following optional attachments may also be submitted: (✓) Survey Plat, scaled no more than 1 inch = 60 feet

Place an (X) beside whichever is submitted if applicable (✓) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information:

Applicant Name: Rollans Soil **Address:** P.O. Box 832 Mooresville NC 28115 **Phone:** 7047465046

Owner Name: Jon & Sandra Mertes **Address:** 159 Yacht Cove Ln. Mooresville NC 28117 **Phone:** 7045751873

Property Information:

Street Address: 159 Yacht Cove Ln Mooresville NC 28117

Subdivision Name: Yacht Cove **Section/Phase:** _____ **Lot Number:** 17

Driving Directions: Brawley, Lt on Yacht Cove Ln, Lot on Lt.

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

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

Maximum Number of Bedrooms: 4
Maximum Number of Occupants: 8
(✓) Swimming Pool
( ) Other Addition/Structure: _____

( ) 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:

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

Desired Septic System Type: ***(you may rank in order of preference)*** **Year existing system installed:** 1/7/00

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

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: _____ 7/18/16

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, Jon P. Mertes & Sandra S. Mertes, am the legal owner(s) of the property located at 159 Yacht Cove Lane, Mooresville, NC 28117, identified as PIN (Parcel Identification Number) 4625-90-8104.000, located in Iredell County, North Carolina.

I do hereby authorize (print legal representative/company name) Samuel Ashley Rollans, Rollans Soil Environmental 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.

Jon Mertes 7/13/16
Signature of Owner(s) Date

Sandra Mertes

Signature of Witness 7/13/16
Date

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

IREDELL COUNTY HEALTH DEPARTMENT

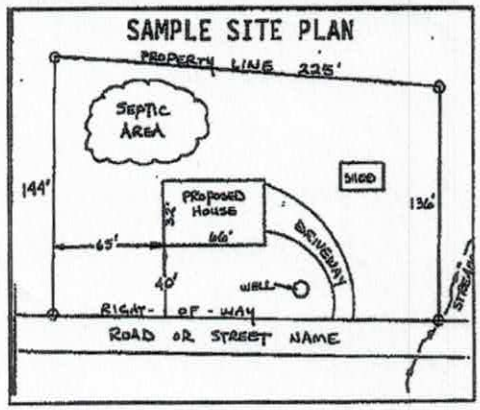
ENVIRONMENTAL HEALTH DIVISION

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

See Attached

Signature: _____ 7/18/16

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

IREDELL COUNTY HEALTH DEPARTMENT

STATESVILLE 704-878-5305 MOORESVILLE 704-664-5281

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

PERMIT# 078446 PIN# 4625 90 8104 DATE 1/11/99

OWNER OR CONTRACTOR Sandra Mintz PHONE: Business Home 660-0552

ADDRESS 189 Yacht Rd. Mooresville, NC. 28117

LOCATION 1100' To Yacht Rd. To Yacht Cove to last on L before cul-de-sac

SUBDIVISION Yacht Cove BLOCK / SECTION LOT 19 LOT AREA .68Ac SITE CLASS RS DESIGN FLOW 480 L.T.A.R. .25

Septic Tank 1000 Gallons STB 194 Date 7/26/94
Pump Tank Gallons PT Date
Pump Make Model Serial No
Verification Field No Flows 1 Square Foot 1005 Linear Feet 335
No Lines 5 Trench Width 36" Max Trench Bottom Depth 30" Gravel Depth SAND

X New System ☐ Repair System Type: I, II, III, IV, V, VI
System Description: Gravity - 16" PVC
Repair System Description: Same
Maintenance Agreement Required: ☐ Yes X No

X Household Home No. Bedrooms 4
☐ Mobile Home No. Bathrooms 4
☐ Business No. Employees
☐ Other

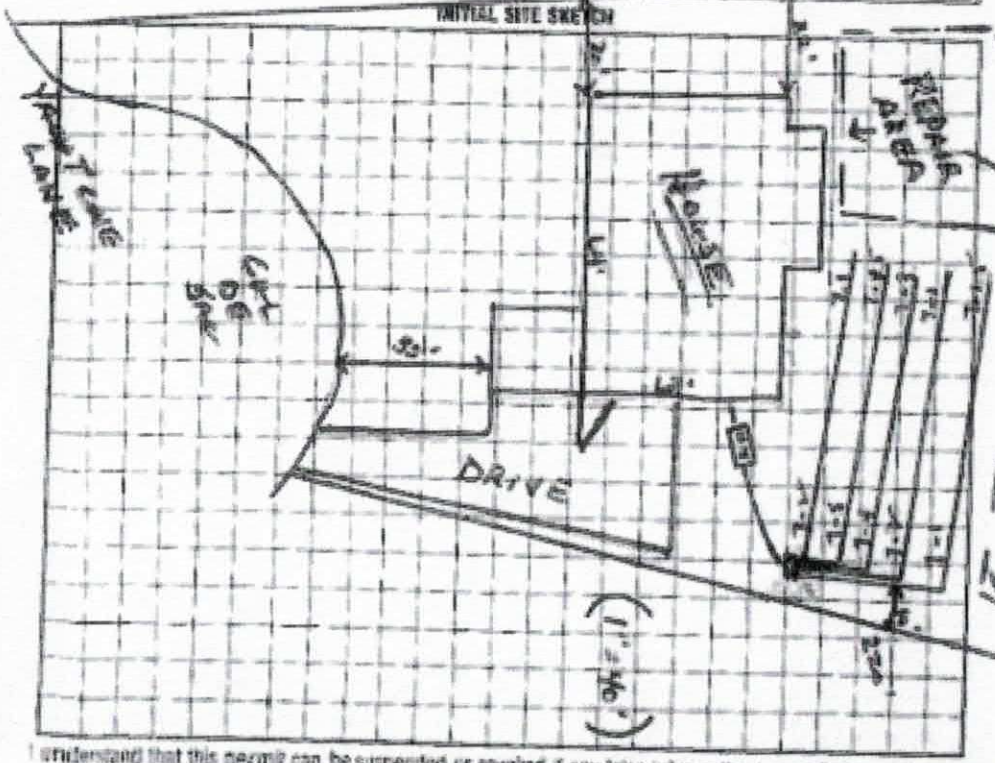
☐ Slab X Crawl Space X Basement w/plumbing ☐ Basement w/o plumbing

Water Supply
X Individual
☐ Public
☐ Community

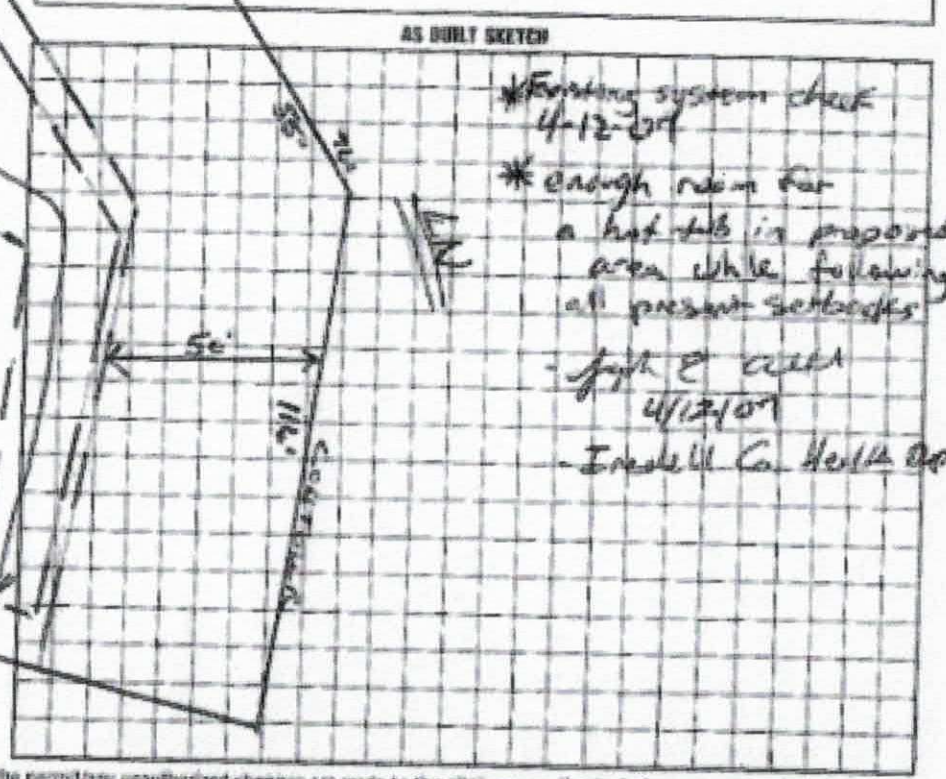
Comments/Conditions

Comments/Conditions

INITIAL SITE SKETCH



AS BUILT SKETCH



* Existing system check 4-12-09
* enough room for a hot tub in proposed area while following all present setbacks
- [illegible] 4/13/09
- Iredell Co. Health Dept

I understand that this 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. Improvement Permit with plat valid without expiration. Improvement Permit with site plan valid for sixty months. Authorization to Construct is valid for a period equal to that of Improvement Permit – not to exceed sixty months.

Signed * Sandra Mintz date 1-14-99

Improvement Permit by: date

Authorization to Construct by Wesley Sparks RS. date 1/11/99

Installed by: TW Ammons

Operation Permit by: Wesley Sparks RS date 1/7/00

Existing System Inspection by: date

HEALTH DEPT COPY WHITE INSPECTION COPY (FINAL) GREEN OWNER COPY (FINAL) YELLOW INSPECTION COPY (INITIAL) PINK

IREDELL COUNTY

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

APPLICATION NUMBER
220386
Issue Date: 07/19/2016

ZONING PERMIT

Residential

Parcel Number	Street Address	Jurisdiction
4625908104.000	159 YACHT COVE LANE, MOORESVILLE, NC	IREDELL COUNTY

Owner Information	Applicant Information
Owner: MERTES JON P+SANDRA S	Applicant: ROLLANS SOIL & ENVIRON
Address: 159 YACHT COVE LN MOORESVILLE, NC 28117	Address: 470 NORTH BROAD STREET SUITE D MOORESVILLE, NC 28115
Phone:	Phone: 704-658-1723

Use Requested	Zone Code
POOL	RR

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
.689	35.00	50.00	10.00	10.00	CACL	AE

Remarks:

Pools shall be located to comply with minimum setbacks requirements for accessory buildings and structures of the district in which located. Pools which are not an integral part of the principal building shall be located at least the minimum distance from the principal building necessary to comply with N. C. Building Code requirements. Pools shall be protected by a fence of equal enclosure, a minimum of four feet in height, and equipped with self-closing and positive self-latching gate to provide with hardware for permanent locking. Fencing Is NOT required for above ground pools if they are at least four (4) in height, the ladder is removed, or when NOT in use have a gate to the ladder as described above.

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: 7/19/16

Permit Number	74758	TOTAL FEES:	$ 77.25