ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 CCN Mooresville Office (704) 660-3625 PERMIT # AP 303646

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

PIN # 4740215274

APPLICANT/OWNER: Iron Ivey LLC APPLICANT ADDRESS: 935 Bronx River Avenue Bronx NY 10473

SITE ADDRESS: 216 Ridge Creek Drive Troutman NC 28166 PHONE: 704-360-287 ALT. PHONE 704 746-5046

SITE DIRECTIONS: Hwy 150 R on Perth R on Clontz Hill Ridge Creek Drive on R SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Rocky Creek Cove SECTION: - LOT # 37 LOT AREA: 0.52 DESIGN FLOW: 360gpd L.T.A.R.: 3

Septic Tank	1000	(gal)	STB 760	Date	3-7-2020	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms 3
Pump Tank		(gal)	PT	Date		System Description:	25% Reduction			☐ Business	No. Persons 6
Pump Make		Model		Serial #		Repair System Description:	25% Reduction			☐ Other	No. Employees
# Nitrification Fields	1	# Lines	4	Linear Ft:	300	Maintenance Agreement Required:	☐ YES	☒ NO		☐ Slab	☐ Crawl Space
Trench Width	36"	Trench Bottom Depth(~~Low side~~)	Max 36	Gravel Depth	-		☒ GRAVITY	☐ PRESSURE		☐ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Install Drainlines on center of land on A use Serial distribution. Septic tank can be 5' off House, if no foundation drain, otherwise it needs to be 10' off House.

INITIAL SITE SKETCH

See Attached by

Rollans Soil + Environmental

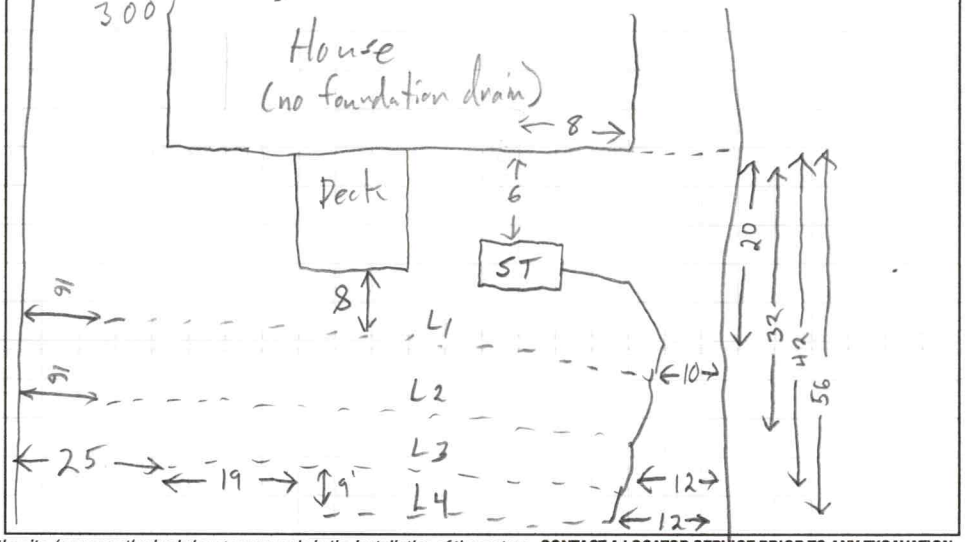
Services

AS BUILT SKETCH

5/8/2020: Sheaf mid-seam 1000 gallon conc tank w/ a Polylok PL-68 effluent filter.

L1 82' L2 86' L3 78 L4 54 300

IQ4W installed @ 36" TB. Verified OK by Iacer. Installed substantially as permitted.



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**

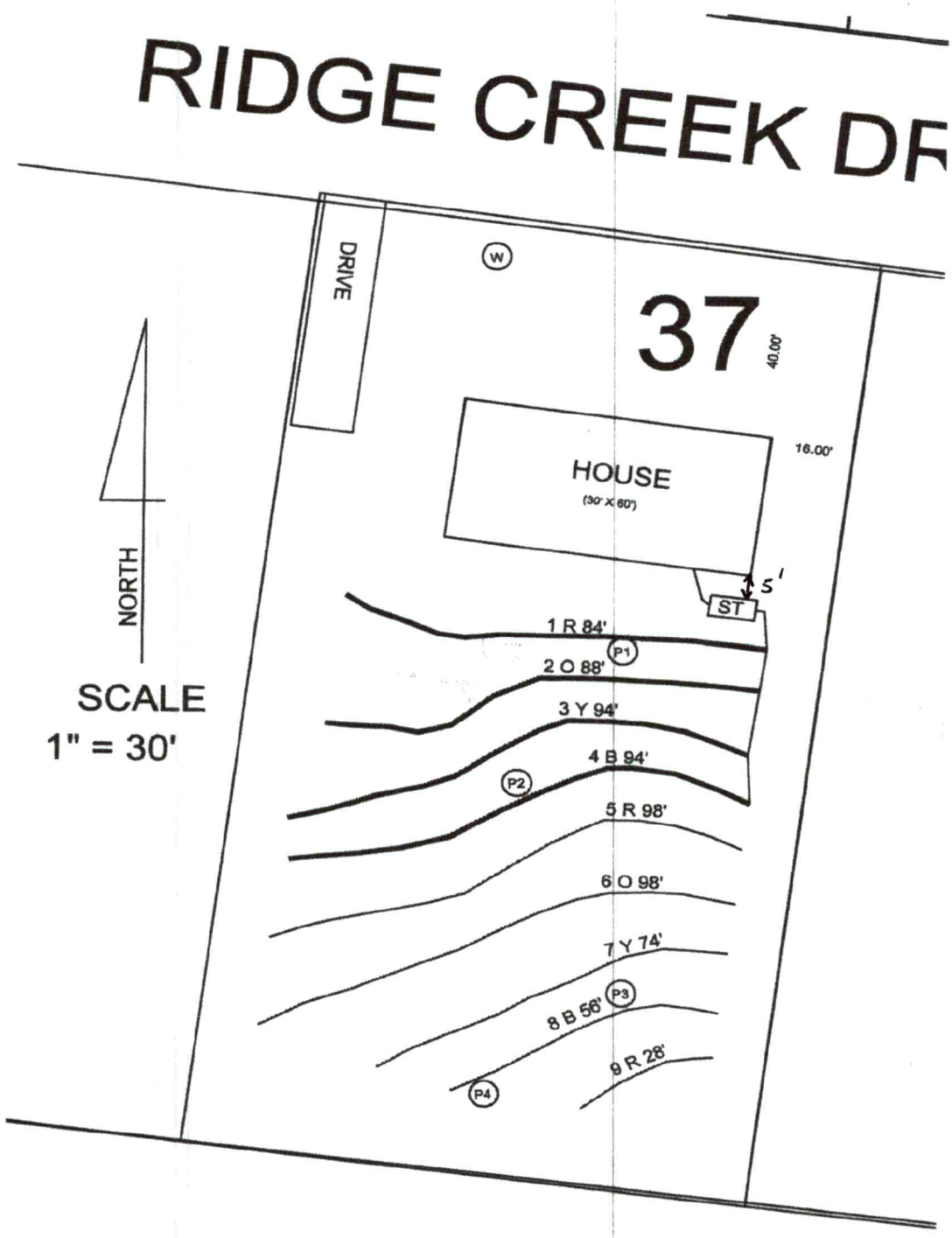
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☐ ~~**IMPROVEMENT PERMIT** *with site plan valid for 60 mos.*~~ ☑ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Date: 1/28/20 Installed by: Lentz Wastewater

IMPROVEMENT PERMIT by: Date: 1-22-20 OPERATION PERMIT by: Tom Shuck Date: 5/8/2020

AUTHORIZATION TO CONSTRUCT by: Date: 1-22-20 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inpsector to confirm your inspection time.


RIDGE CREEK DR
DRIVE
W
37
40.00'
16.00'
HOUSE
(30' X 60')
5'
ST
NORTH
SCALE
1" = 30'
1 R 84'
P1
2 O 88'
3 Y 94'
4 B 94'
P2
5 R 98'
6 O 98'
7 Y 74'
8 B 56'
P3
9 R 28'
P4

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

Sheet 1 of 1
PROPERTY ID #: 474052527
COUNTY: Iredell

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

OWNER: Iron Ivey LLC
ADDRESS: 935 Bronx River Ave Bronx NY 10473
PROPOSED FACILITY: House
PROPOSED DESIGN FLOW (.1949): 360gpd
LOCATION OF SITE: 216 Rose Creek Dr Lot 37
APPLICATION DATE 12-3-19
DATE EVALUATED: 1-17-20
PROPERTY SIZE: 0.52 Ac
PROPERTY RECORDED: Yes
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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	10-11% SS	0-6	SBK SCL	FSS SP SaP	N/A	48+	N/A	N/A	PS .3
		6-26	SBK C						
		26-48	SBK CL						
2	10-11% SS	0-6	SBK SCL		N/A	48+	N/A	N/A	PS .3
		6-24	SBK C						
		24-48	SBK CL						
3	10-11% SS	0-6	SBK SCL		N/A	48+	N/A	N/A	PS .3
		6-28	SBK C						
		28-48	SBK CL						
4	10-11% SS	0-6	SBK SCL		Few Motts	48+	N/A	N/A	PS .275
		6-30	SBK C						
		30-48	SBK CL						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	300+	300+
System Type(s)	2SC	2SC
Site LTAR	.3	.275

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

COMMENTS:

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 37, 216 Ridge Creek Dr. Troutman 28166, (PIN 4740215274), Iredell County, North Carolina.

Contents:

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December 3, 2019
Project #: 01-3196
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 DHHS, 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.
- Repair is specified as a gravity 25% reduction (Accepted) installation.

GRAVITY ACCEPTED SYSTEM
FOR WASTEWATER TREATMENT

Applicant:	Iron Ivey LLC
Address:	935 Bronx River Avenue Bronx, NY 10473
Phone:	704.360.2874
County:	Iredell
Location:	216 Ridge Creek Drive Troutman, NC 28166
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360
System Flow:	N/A

Design Specifications

Drainfield Size:	300	
Loading Rate (gpd/ft.^{2}):	0.3	
Depth of Gravel in Trench:	N/A	
Gravel Size:	N/A	
Max.Trench Depth:	24 in.	Repair Trench Bottom 24 in.
Trench Width:	36 in.	
Septic Tank Size:	1000	

Estimated Supply Line Length:	10
Supply Line Diameter:	4 in. SCH 40 PVC
Supply Line Volume:	6.53
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

216 Ridge Creek Drive

ACCEPTED SYSTEM

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	900
TOTAL LATERAL LENGTH:	300
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	300
SUPPLY LINE LENGTH:	10
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1000

Layout Specifications - ROCKY CREEK COVE LOT 37

Project #: 01-3196

LAYOUT FOR 3 BEDROOM HOME

12/3/2019

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	***RED***					***84***	***75***
2	***ORANGE***					***88***	***75***
3	***YELLOW***					***94***	***75***
4	***BLUE***					***94***	***75***
5	RED					98	98
6	ORANGE					98	98
7	YELLOW					74	74
8	BLUE					56	56
9	RED					28	28
					Total	714	654

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***300***	***0.300***	***ACCEPT.***	***0.300***	***25% RED***	***GRAVITY***
Repair	354	0.275	***ACCEPT.***	0.275	***25% RED***	***GRAVITY***

Notes: **All measures in feet

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

CALCULATIONS

Location 216 Ridge Creek Drive
Troutman, NC 28166
Project Number 01-3196

Lot No: 37 Rocky Creek Cove

No. of Bedrooms 3

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

LTAR 0.300 $^{gal}/_{ft^2\,day}$

PPBPS? (YES OR NO) NO

Supply Line Length 10 ft.

Supply Line Volume 6.53 gal.

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

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

RECEIVED DEC 2 3 2019

Paid $350.00

AP # 303646

IREDELL COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
PAGE 1: APPLICATION FORM

Application For:

(X) Septic Improvement Permit ( ) New Well Permit (X) Authorization to Construct ( ) Well Repair Permit ( ) Existing System Inspection ( ) Well Abandonmen ( ) Septic System Rep

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SI IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 48 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTI APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAIL

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

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

Applicant Information:

Applicant Name: Iron Ivey LLC Address: 935 Bronx River Avenue, Bronx NY 10473 Phone: 7043602

Owner Name: Iron Ivey LLC Address: 935 Bronx River Avenue, Bronx NY 10473 Phone: 7043602287

Property Information:

Street Address: 216 Ridge Creek Drive Troutman NC 28166

Subdivision Name: Rocky Creek Cove Section/Phase: SHT 3 Lot Number: [redacted]35

Driving Directions: Hwy 150, Right Perth Rd, Right Clontz Hill, on Right [redacted] Ridge Creek Drive.

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: 6
( ) 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 Employees:
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 (X) Other: Accepted

Year existing system installed:

Please answer the following to the best of your ability:

( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (X) 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: [signature] 12/5/19 [redacted]

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, Iron Ivey LLC, am the legal owner(s) of the property located at 216 Ridge Creek Dr. Lot 37, identified as PIN (Parcel Identification Number) 4740215274, 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.

Signature of Owner(s) — Date 9/27/19 — Signature of Witness — Date 9/27/19.

Please return this signed form to the appropriate office:

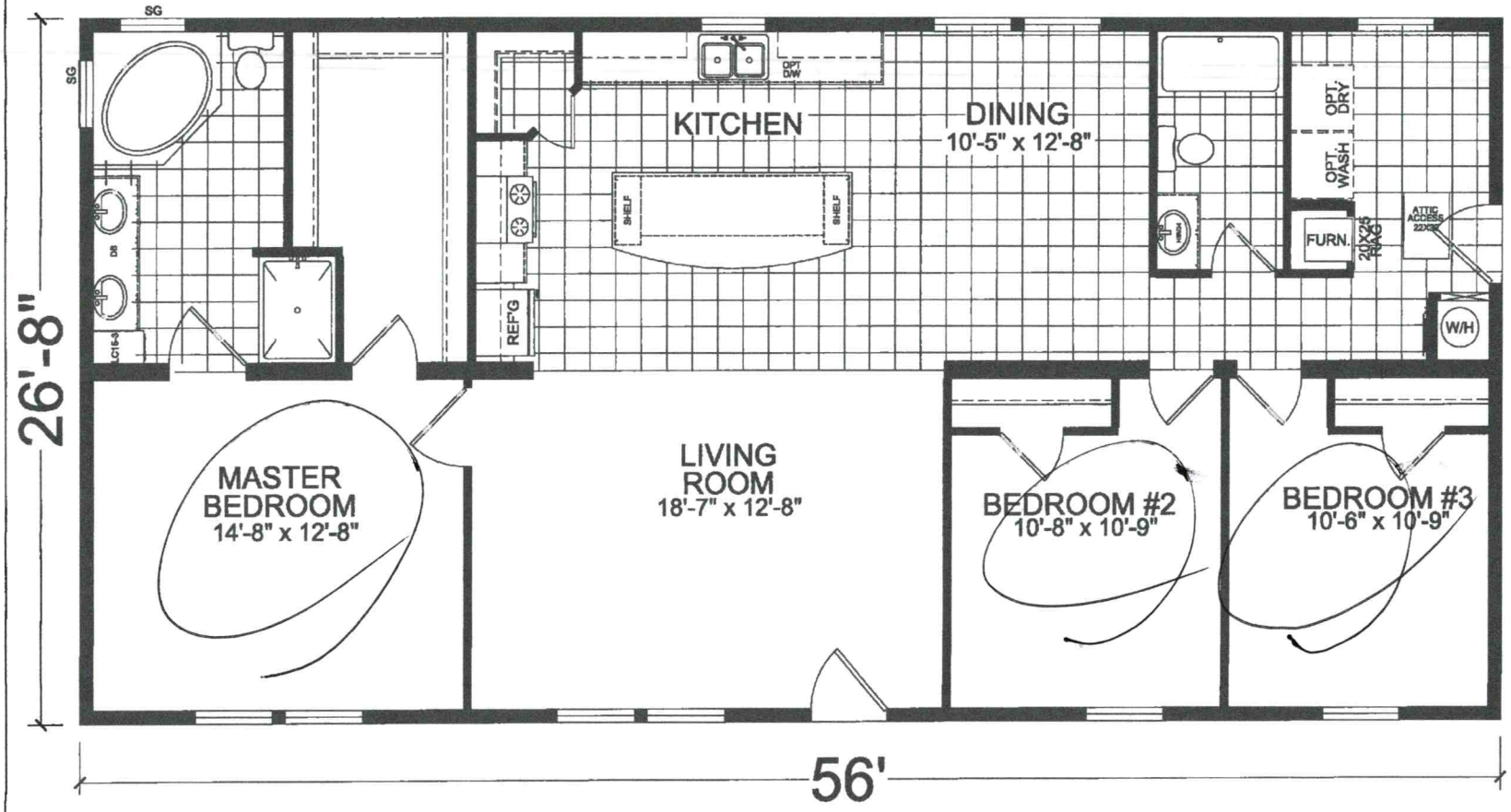
Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

Acknowledgement Of
Plans Submittal ONLY!
Date 1-22-20
Date 1/28/20

MODEL 23-2856-01

3 BDRM, 2 BATH
ACTUAL SIZE: 56'-0"X 26'-8"
TOTAL AREA: 1493 SQ.FT.



MATERIALS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE FOR PRODUCTION AND CODE PURPOSES. ALL DIMENSIONS ARE NOMINAL AND APPROXIMATE. SQUARE FOOTAGE IS MEASURED FROM EXTERIOR WALL TO EXTERIOR WALL AND IS A APPROXIMATE FIGURE. THIS DRAWING IS A RENDERING AND IS MEANT FOR SALE PURPOSES ONLY.

CHAMPION
4605 HWY. 401 SOUTH, LILLINGTON, NC 27546

PROJECT

APPROVED
DATE 5/3/19
PFS CORPORATION
Cottage Grove, WI

TITLE: LITERATURE PLAN
MODEL: 23-2856-01
DATE: 05-29-19
SCALE:
DRAWN BY: RS
REVISED:
REVISIONS
SHEET NO: L-101
PAGE:

IREDELL COUNTY · NC

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

APPLICATION NUMBER
303646 Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4740215274.000	216 RIDGE CREEK DR	Iredell County

Owner Information	Applicant Information
Name: IRON IVEY LLC	Name: ROLLANS SOIL & ENVIRONMENTAL SERVICES
Address: 935 BRONX RIVER AVENUE BRONX, NY 10473	Address: 470 NORTH BROAD STREET SUITE D MOORESVILLE, NC 28115
Phone:	Phone: (704)658-1723

Use Requested	Zone Code
Single Family Dwelling	ra

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0.52	35	35	15	15	WSIV-PA Catawba/Lake Norman	NO

Remarks
SFD--FAST TRACK GRAVITY

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.

Signature of Owner/Contractor

Date: 12/20/2019

Permit Number	303646	TOTAL FEES:	$77.25