REDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 232907

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

PIN # 4715 758372

APPLICANT/OWNER: Castlegate, LLC APPLICANT ADDRESS: 282 Scotts Creek Rd Statesville NC 28625

SITE ADDRESS: 168 Greyhorn Dr Statesville NC PHONE: 704-578-4951 ALT. PHONE N/A

SITE DIRECTIONS: 64 T/R 90 T/L Alesher Farm LP T/L Staffordshire T/R Greyhorn on RT SAP CONTROLLED: [X] YES [ ] NO

SUBDIVISION: Castlegate SECTION: -- LOT # 32 LOT AREA: 0.46 ac DESIGN FLOW: 360 L.T.A.R.: 0.3

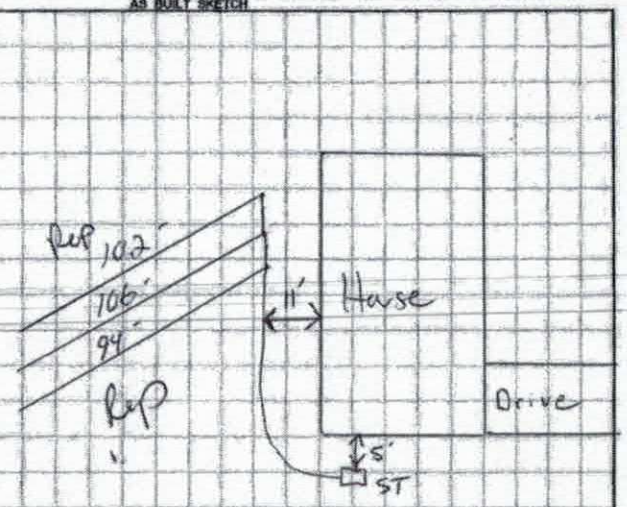
Septic Tank	1000 (gal)	STB	825-1000	Date	9-21-18	[X] New System [ ] Repair [ ] Expansion	System Type: I II (III) IV V VI	[X] Residence	No. Bedrooms	3	Water Supply
Pump Tank	(gal)	PT		Date		System Description:	25% Reduction	[ ] Business	No. Persons	6	[ ] Private
Pump Make		Model		Serial #		Repair System Description:	LP PPBPS	[ ] Other	No. Employees		[X] Public
# Nitrification Fields	1	# Lines	3	Linear Ft.	300	Maintenance Agreement Required:	[ ] YES [X] NO	[X] Slab	[ ] Crawl Space		[ ] Community
Trench Width	36"	Trench Bottom Depth(Low side)	24"	Gravel Depth	N/A		[X] GRAVITY [ ] PRESSURE	[ ] Basement w/plumbing		[ ] Basement w/o plumbing	

Comments / Conditions: Per plan by The Oaks Group PA

INITIAL SITE SKETCH

See plan by The Oaks Group, PA

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.* [X] **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* [X] **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: _____ Date: 4/10/18 Installed by: Raven Septic

IMPROVEMENT PERMIT by: _____ Date: 04/06/18 OPERATION PERMIT by: _____ Date: 10-29-18

AUTHORIZATION TO CONSTRUCT by: _____ Date: 04/06/18 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 inspector to confirm your inspection time.

Notes.

1) This property may be subject to any Easements, Rights-of-way, and/or Restrictive Covenants.

2) Boundary information based on Map Book: 54 at Page: 98-100 as recorded in the Iredell County Register of Deeds.

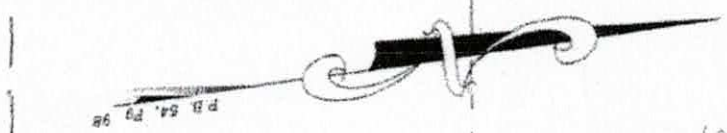
3) No N.C.G.S. or U.S.G.S. Monuments could be located within 2000'.

4) Area by coordinate method.

5) This survey is of an existing parcel of land.

Legend

R/W = Right-o
I.P.S. = #4 Reb
B.O.C. = Back
= Not to
= Telephc
= Utility
= Cable
= Calcula



Lot 14
PB 54 pg 98

Lot 15
PB 54 pg 98

Lot 16
PB 54 pg

S8°00'46"W 100.00'

10' Utility And Storm Drainage Easement

35' Setback

Lot 32
20,000 Sq.Ft.
0.46 Acres

200.00'

S82°15'48"E

N82°15'48"W

Lot 33
MB 54 PG 98

Lot 31
MB 54 PG 99

70'

15'

35' Setback

35'

Drive

10' Utility And Storm Drainage Easement

N8°00'46"E 100.00'

Greythorn Drive

50' Public R/W

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

RE: 168 Greythorn Dr

Date: March 14, 2018

Attached is the septic specification information required to permit 168 Greythorn Drive for an Improvement Permit and/or Construction Authorization Permit in Iredell County via the Expedited Review Process.

The attached information is not an Improvement Permit or an Authorization to Construct, and is only to assist the ICHD with permitting. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC Rules, which these specifications are in accordance with. If the ICHD wishes to change tank locations, distribution devices, etc they may do so at their discretion.

All information and specifications have been prepared in conjunction with ICHD permitting guidelines for the current lot owners to acquire an Improvement Permit and/or Authorization to Construct on this lot. It is ultimately the ICHD's responsibility to verify all specifications, including soil descriptions, before permitting and/or septic system installation.

LICENSED SOIL SCIENTIST
KATHLEEN M. SAUNDERS
1313
STATE OF NORTH CAROLINA

Kathleen Saunders

Lot 32 Castlegate Fast Track - The Oaks Group, PA

Number of Bedrooms	**3**
Basement or Crawl	**Concrete Slab**
Design Flow (gpd)	**360**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	3 (See Table)
Total Linear Feet	300
Trench Width	3' min.
Trench Spacing	9' min.
Distribution Device	Drop Boxes or Other
Tank Size	1000 gallon tank
Max Trench Bottom Depth (High Side)	24"
Maintenance Agreement Required	No
Repair System	**LP PPBPS**
Total Linear Feet	260
Repair Loading Rate	0.3

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)
1	Repair	Orange	LP PPBPS	54
2	Repair	Red	LP PPBPS	78
3	System	Blue	25% Reduction	100 endfed
4	System	Pink	25% Reduction	105 endfed
5	System	Orange	25% Reduction	95 endfed
6	Repair	Red	LP PPBPS	75
7	Repair	Blue	LP PPBPS	53
				Total System: 300'
				Total Repair: 260'

Note: Keep necessary setbacks to foundation drains if used
Tank locations and distribution devices can be altered at ICHD's discretion

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

Sheet 1 of 1
PROPERTY ID #:
COUNTY: Iredell

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

OWNER: Castlegate LLC
ADDRESS: 7271 Long Island Rd Catawba NC
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: Castlegate Lot 32
APPLICATION DATE:
DATE EVALUATED: 3/14/18
PROPERTY SIZE: 0.46
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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 10%	0-5	MoGR SL	FR NS/NP	Br	24"	PS	N/A	0.3
		5-18	MoSBK C	FR SS/SP	R				
		18-24	WK SBK CL	↓	R; C sap				
		24-48	MA L sap	↓	R Br				
2	L 10%	0-24	MoSBK C	FR SS/SP	R	48+	N/A	N/A	0.3
		24-48	WK SBK CL	↓	R; C sap				
3	L 10%	0-30	MoSBK C	FR SS/SP	R	48+	N/A	N/A	0.3
		30-48	WK SBK CL	↓	R; C sap				
4	L 10%	0-25	MoSBK C	FR SS/SP	R	36"	PS	N/A	0.3
		25-36	WK SBK CL	↓	R; C sap				
		36-48	MA L sap	↓	90% R				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	IIIg	IV
Site LTAR	0.3	0.3

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

COMMENTS:

RECEIVED MAR 16 2018

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Paid $350.00

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(X) Septic Improvement Permit (X) 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.

****

232907

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

****

Applicant Information: (PRINT CLEARLY) Contact Kathleen Saunders 7072578495 1

Applicant Name: Castlegate LLC **Address:** 282 Scotts Creek Rd Statesville **Zip:** 28625

Applicant Email: _____ **Phone:** _____ **Alt. Phone:** _____

Owner Name: Same **Address:** _____ **Zip:** _____

Owner Email: _____ **Phone:** _____ **Alt. Phone:** _____

****

Property Information:

Street Address: 148 Greythorn Drive Statesville NC 28625

Subdivision Name: Castlegate **Section/Phase:** _____ **Lot Number:** 32

Driving Directions: Rt. 64, Rt. 90W, left Absenfarm Loop left Staffordshire Dr Rt onto Greythorn Dr property is on the right.

****

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

CHECK FOUNDATION TYPE

(X) New Single Family Residence — Maximum Number of Bedrooms: 3 — ( ) Crawl Space Foundation
( ) New Multi-Family Residence — Maximum Number of Occupants: 6 — (X) Concrete Slab Foundation
( ) Accessory Building — ( ) Swimming Pool — ( ) Basement with Plumbing
( ) Bedroom(s) Addition — ( ) Other Addition/Structure: _____ — ( ) Basement without Plumbing
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____

Non-Residential Site Development: Type of Business: _____
Square Footage of Building: _____ Max. Number of Employees: _____ Max. Number of Seats/Beds/Other: _____

****

Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well Number of Houses: _____ Number of Persons: _____

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

****

Desired Septic System Type: *(you may rank in order of preference)* Year existing system installed: _____
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

****

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: _____ 1-24-18
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

AUTHORIZATION TO ACT AS AGENT FOR OWNER

Any application/document/permit requiring a signature must be signed by the property owner or their authorized agent. This form shall be provided by the owner to allow specified individuals to act as agents for the owner. This form allows the specified individuals to sign or receive any application/document/permit on behalf of the owner. This form allows the authorized agent to make decisions on behalf of the owner pertaining to modifications of permits in the field. It is the responsibility of the owner to assure that any/all permit conditions specified on permits issued by this Division are followed.

I, Ray Sheet, am the legal owner of the property located at 168 Greythorn Dr, identified as PIN(Parcel Identification Number) 4715 75 8372, located in Iredell County, North Carolina.

I do hereby authorize (print authorized agent/company name) The Oaks Group, PA _____, _____, _____, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

1. Improvement Permit (IP)/ Authorization to Construct (AC).
2. Application for soil-site evaluation (new/repair).
3. Application/permit for water well/well abandonment.
4. Application for existing system.
5. Application for Improvement Permit (IP)/ Authorization to Construct (AC).

I agree to abide by any and all decisions and/or conditions between the agent acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division. This form must be fully executed before the individual's specified above will be recognized as the authorized agent.

_____ 3/15/18
Signature of Owner Date

_____ _____
Signature of Witness Date

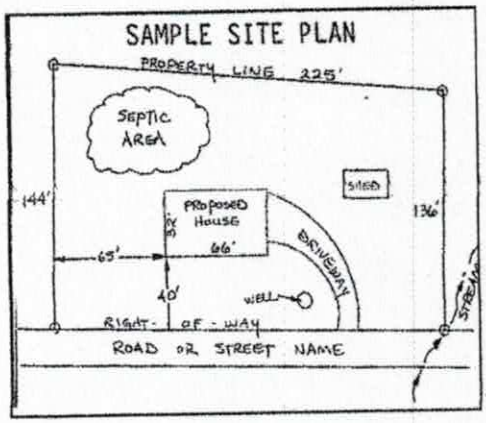
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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 OR WELL PERMIT!!!***

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

( ) **Property Line measurements are clearly identified**
( ) **All proposed structures are indicated**
( ) **Front and side setbacks from property line**
( ) **Preferred driveway location**
( ) **Preferred well location**
( ) **Preferred septic system location**
( ) **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

please see attached site

Signature: _____ 1-24-18
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

Acknowledgement of Plans Submittal ONLY!

Date

Date 04/06/18

HW = 6.00

51

50

FRANK BETZ ASSOCIATES, INC. ASSUMES NO LIABILITY FOR ANY CHANGES OR MODIFICATIONS MADE TO THESE PLANS BY OTHERS

FLOOR PLAN

SQUARE FOOTAGE

FLOOR PLAN

SQ. FT.

GARAGE

BRKFST.

KITCHEN

DINING

LAUND.

FOYER

VAULTED FAMILY ROOM

COVERED PORCH

BEDROOM 2

BEDROOM 3

BATH

MASTER SUITE

SITTING

BATH

W.I.C.

If this stamp is not red it is not a legal set of plans

4/9/18

SHEET 3 of 5	DATE 3-15-18	BY MM	

FBA

FRANK BETZ ASSOCIATES, INC.

1600 LAKE PARK DRIVE/SUITE 101
SMYRNA, GEORGIA 30080
770/431-0886

FLOOR PLAN

THE MARSHALL

HOMEPLANS

DATE	REV	DATE	REV
3-6-18	CLAY M-18		
1-20-17	CLAY M-18		

Any Owner's or Agent's use or reproduction of plans for construction any building without the written permission of Frank Betz Assoc., Inc.

IREDELL COUNTY

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

APPLICATION NUMBER
232907
Issue Date: 01/24/2018

ZONING PERMIT

Open Space

Parcel Number	Street Address	Jurisdiction
4715758372.000	168 GREYTHORN DRIVE, STATESVILLE, NC	IREDELL COUNTY

Owner Information	Applicant Information
Owner: CASTLEGATE LLC	Applicant: KATHLEEN SAUNDERS
Address: 282 SCOTTS CREEK RD STATESVILLE, NC 28625	Address: 121 HOLT LANE MOORESVILLE, NC 28117
Phone:	Phone: 704-578-4951

Use Requested	Zone Code
SFD	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
.460	35.00	35.00	15.00	15.00	NOT	X

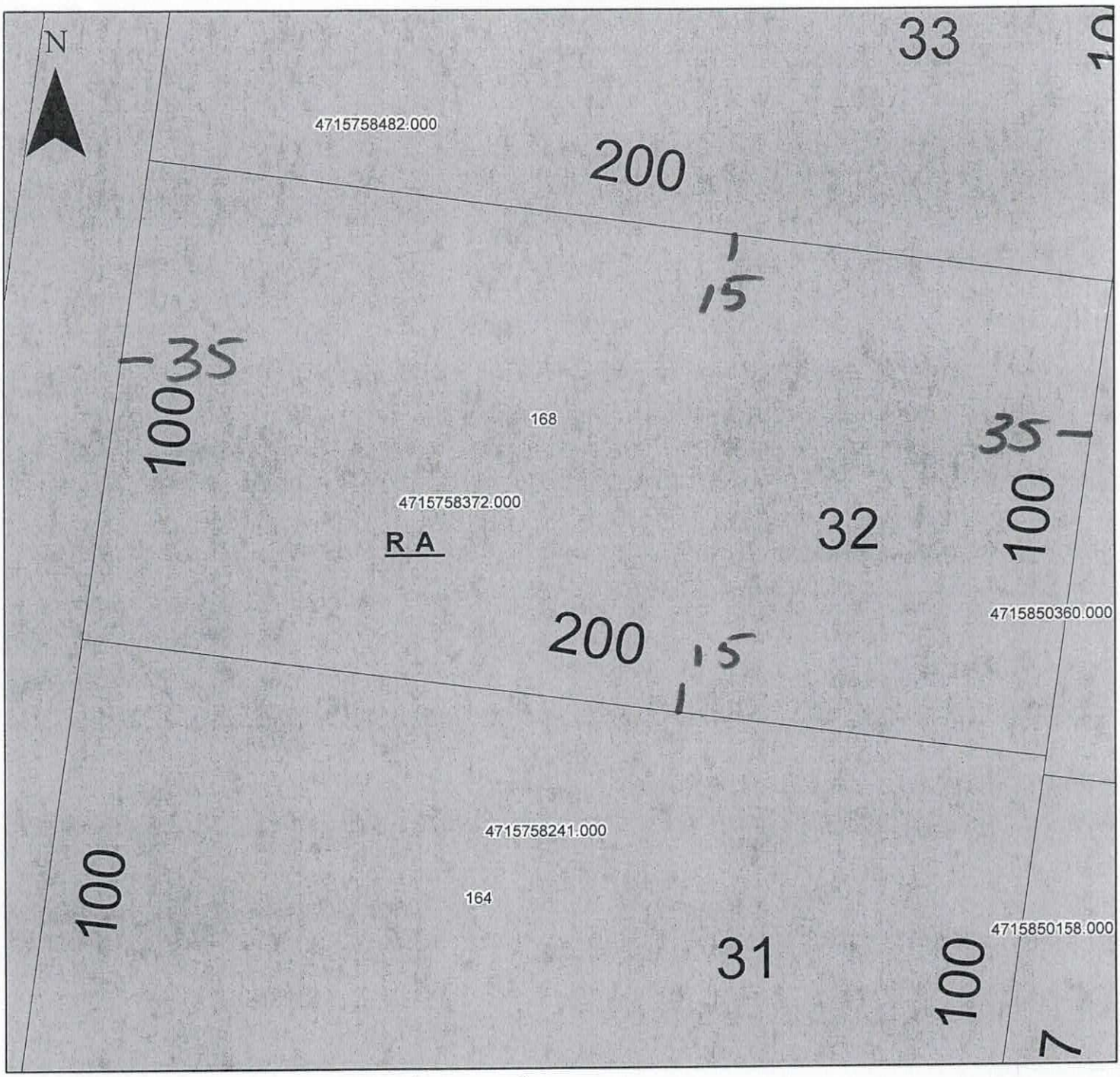
Remarks:

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	126598	TOTAL FEES:	$ 77.25

ZONING DISCLAIMER



Property Address 168 Greythorn Dr.

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. Applicant further acknowledges that the 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