ICHD–ENVIRONMENTAL HEALTH DIVISION

PJB

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625

PERMIT # AP-306207

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

PIN # 4638-28-0638

APPLICANT/OWNER: Jeffrey Oakley | APPLICANT ADDRESS: 1137 Fern Hill Rd. Mooresville, NC

SITE ADDRESS: 1137 Fern Hill Rd. Mooresville, NC 28117 | PHONE: 607-240-9185 | ALT. PHONE

SITE DIRECTIONS: Perth Rd N from Rt 150 → L on Fern Hill Rd → lot on left

SUBDIVISION: Fernleaf | SECTION: 2 | LOT # 32 | LOT AREA: 3.1 acres | SAP CONTROLLED: ☒ YES ☐ NO | DESIGN FLOW: 480 GPD | L.T.A.R.: 0.275

Septic Tank	1000 (gal)	STB	760	Date	11/23	☒ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI
Pump Tank	— (gal)	PT	—	Date	—	System Description:	25% Reduction (serial distribution)		
Pump Make	—	Model	—	Serial #	—	Repair System Description:	25% Reduction		
# Nitrification Fields	1	# Lines	4	Linear Ft	436	Maintenance Agreement Required:	☐ YES	☒ NO	
Trench Width	36"	Trench Bottom Depth (~~Low~~ max side)	24"	Gravel Depth	—	☒ GRAVITY	☐ PRESSURE		

☒ Residence	No. Bedrooms	4	Water Supply	
☐ Business	No. Persons	8	☒ Private	
☐ Other	No. Employees		☐ Public	
☐ Slab	☒ Crawl Space		☐ Community	
☐ Basement w/plumbing			☐ Basement w/o plumbing	

Comments / Conditions: Recommend having septic tank pumped every 5 years.

INITIAL SITE SKETCH

See attached plans from Soil + Forestry Services of the Carolinas

Dated: 6-17-2020 (site plan) Wendell Overby LSS #1218
Received: 7-8-2020

AS BUILT SKETCH

Not to scale measurments on site sketch not to scale

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.*

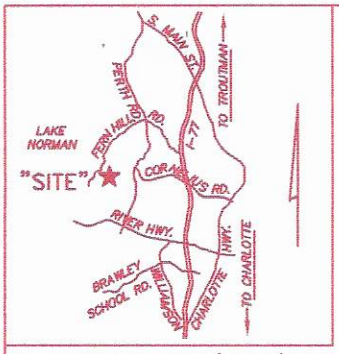
Owner / Applicant Signature:

IMPROVEMENT PERMIT by: Tom Shuck Date: 7/24/2020 Installed by: Kevin Rowan Septic

AUTHORIZATION TO CONSTRUCT by: Tom Shuck Date: 7/22/2020 OPERATION PERMIT by: Patrick J Bryant Date: 3/3/2021

Date: 7/29/2020 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.



VICINITY MAP (N.T.S.)

MIN. BLDG. SETBACKS
(PER MAP BK. 58 – PG. 116)

FRONT = 35 FT.
SIDE = 15 FT.
REAR = 35 FT.

35 FT. MAX. BLDG. HEIGHT
PER MAP BK. 58 AT PG. 116

THIS DRAWING IS THE PROPERTY OF WARREN JENNINGS LAND SURVEYING. THE REPRODUCTION, ALTERATION, COPYING OR OTHER USE OF THIS DRAWING FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY THE WRITTEN CONSENT OF WARREN JENNINGS LAND SURVEYING IS PROHIBITED.

NOTES

1) SURVEY WAS CONDUCTED MARCH 17, 2020.
2) OWNERS OF RECORD ARE JEFFREY ALLEN OAKLEY & GWYN PAULINE OAKLEY (BK. 2689 AT PG. 2035). PARCEL I.D. #4638280638
3) BEING LOT 32 AS SHOWN ON PLAT OF FERNLEAF SUBDIVISION – PHASE 2 (MAP BOOK 58 AT PAGE 116).
4) ADJOINING PROPERTY INFORMATION TAKEN FROM IREDELL COUNTY G.I.S. AT TIME OF SURVEY.
5) AREA (COMPUTED BY COORDINATE GEOMETRY METHOD) IS 3.1000 ACRES (135,035 S.F.).
6) PROPERTY MAY BE SUBJECT TO ANY AND ALL EASEMENT(S) OR RIGHT(S) OF WAY, WHETHER WRITTEN OR UNWRITTEN, RECORDED OR UNRECORDED. VISIBLE EVIDENCE INDICATING SUCH USE OF THE LAND IS SHOWN.
7) THIS MAP WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO AN UP–TO–DATE TITLE SEARCH. THIS SURVEYOR MAKES NO GUARANTEE THAT ALL EASEMENT(S), RIGHT(S)–OF–WAY OR OTHER RIGHT(S) OF RECORD EXIST OTHER THAN SHOWN.
8) PROPERTY ZONED "RA" PER MAP BOOK 58 AT PAGE 116.
9) DISTANCES HEREON ARE HORIZONTAL GROUND DISTANCES BASED ON THE U.S. SURVEY FOOT.
10) NO N.C./U.S. HORIZONTAL CONTROL MONUMENT FOUND WITHIN 2,000 FEET OF THIS SITE.
11) THIS PROPERTY IS SUBJECT TO COVENANTS, CONDITIONS & RESTRICTIONS OF RECORD.
12) SUBJECT TO UTILITY & DRAINAGE EASEMENT ALONG FRONT, SIDES & REAR TEN (10) FT. OF LOT PER MAP BOOK 58 AT PAGE 116.
13) SUBJECT TO TREE SAVE BUFFER ALONG EASTERLY TEN (10) FT. AND REAR SIXTY (6) FT. OF LOT PER BK. 2689 AT PG. 2035.
14) HOUSE FOOTRPINT SHOWN HEREON TAKEN FROM FOUNDATION PLAN (SHEET A2.0) OF UNSIGNED/UNSEALED PLANS ENTITLED "OAKLEY RESIDENCE" AS PREPARED BY ROBERT SMITH DESIGN, DATED JUNE 1, 2020 (MARKED FOR CONSTRUCTION).

LEGEND

℄ = CENTERLINE
R/W = RIGHT OF WAY
N.T.S. = NOT TO SCALE
= SURVEYED BOUNDARY
= BOUNDARY NOT SURVEYED
= FOUND #4 REBAR
= SET WOOD STAKE ON LINE
(220.50') = MEASUREMENT OF RECORD
—— E —— = OVERHEAD ELECTRIC LINES

GROVER C. MOSS, III
PATSY C. MOSS
BK. 2118 – PG. 1635
MAP BK. 58 – PG. 116 (LOT 33)
PARCEL I.D. #4638283440
#1133 FERNHILL RD.

LOT 24
MAP BK. 58 – PG. 116

TIE L4

TIE L5

100.2'

86.8'

S52°43'42"W 187.01'

35' REAR YARD

117.5'

163.67'

LOT 25

N34°17'17"W 269.15'

15' SIDE YARD

103.2'

15' SIDE YARD

105.48'

MICHAEL TUZZOLINO
CALI LOUKAS
BK. 2662 – PG. 1526
MAP BK. 58 – PG. 116 (LOT 26)
PARCEL I.D. #4638188415
#680 KENWAY LOOP

GRAVEL DRIVEWAY

S29°36'55"E 558.67'

86.6'

S56°51'52"W
67.65'

BLDG.

L2

DAVID L. NEESE
JENNIFER L. NEESE
BK. 2300 – PG. 1557
MAP BK. 61 – PG. 128 (LOT 27)
PARCEL I.D. #4638187564
#686 KENWAY LOOP

FORMER LOT 27
FORMER LOT 28

24.44'
17.42'

DETAIL
(N.T.S.)

PROPOSED FOUNDATION FOOTPRINT (SEE NOTE 14)
#1137 FERN HILL RD.

36.14'

15' SIDE YARD

46.14'

FORMER LOT 28
FORMER LOT 29

ROBERT MORRIS TEAGUE
CYNTHIA COFFEY TEAGUE
BK. 2300 – PG. 1554
MAP BK. 61 – PG. 128 (LOT 29)
PARCEL I.D. #4638186555
#698 KENWAY LOOP

LOT 34
MAP BK. 58 – PG. 116

88.4'

50'

73.0'

40'

SEE DETAIL FOR DIMS.

71.66'

N18°43'14"W

74.78'

UNDERGROUND "INVISIBLE" DOG FENCE*

RONALD BAKER
JANELLE BAKER
BK. 2670 – PG. 2498
MAP BK. 58 – PG. 116 (LOT 30)
PARCEL I.D. #4638186708
#704 KENWAY LOOP

LOT 1

POWER POLES

TIE L3

WELL

OVERHEAD ELECTRIC

35' SETBACK

POWER POLE

GUY WIRES

90.0'

125'

133.03'

METAL PICKET FENCE

TIE (N.T.S.)
S36°04'56"W
226.83'

R/W

TIE LINE
S42°34'29"W 210.33'

E

C1

L1

S.R. #1300
FERN HILL ROAD

R/W

GEORGE B. TOLBERT
JODI M. TOLBERT
BK. 2196 – PG. 618
MAP BK. 58 – PG. 116 (LOT 31)
PARCEL I.D. #4638186819
#712 KENWAY LOOP

R/W

KENWAY LOOP
S.R.#1398

"MAG" NAIL SET
IN ℄ OF ROAD
(AT POWER POLE)

MAP BK. 47 – PG. 117

R/W

(220.50')

50'

TIE LINE (N.T.S.)
N88°19'26"E 247.62'

"MAG" NAIL SET
IN ℄ INTERSECTION

* LOCATION SHOWN HEREON BASED ON ABOVE GROUND EVIDENCE (PIN FLAGS).

LINE TABLE		
LINE	LENGTH	BEARING
L1	106.36'	N81°31'22"E

GRAVITY DOSED SYSTEM
FOR WASTEWATER TREATMENT

Owner:	Jeff & Gwyn Oakley		
Phone:	607 240-9185		
County:	Iredell		
Location:	1137 Fern Hill Road		
Source of Wastewater Flow:	4 Bedroom Single Family Residence		
Estimated Daily Wastewater Production:	480 gpd		
System Flow:		gpm	

Design Specifications

Drainfield Size:	436	lf	
Loading Rate:	0.275 gpd/ft.^{2}		
Depth of Gravel in Trench:	n/a		
Gravel Size:	n/a		
Trench Depth:	24	in	max
Trench Width:	36 in.		
Septic Tank Size:	1000		
Pump Tank Size:	n/a		
Estimated Supply Line Length:	100	lf	
Supply Line Diameter:	3 in. SCH 40 PVC		
Supply Line Volume:	n/a	gal	
Dosing Volume:	n/a	gal	
Recommended Float Controls:	n/a		
Recommended Control Panel:	n/a		
Pressure Head:	n/a		
Friction Head:	0.00	ft	
Elevation Head:	0.00	ft	
Total Dynamic Head:	0.00	ft	
Threaded Union:	n/a		
Gate Valves:	n/a		
Check Valves:	n/a		
Anti-Siphon Hole:	n/a		
Recommended Pump:	n/a		

APPROVED JUL 2 2 2020

1137 Fern Hill Road

Gravity Design

DESIGN FLOW:	480	gpd
SOIL APPLICATION RATE:	0.275	gpd/ft.^{2}
TOTAL AREA TRENCH BOTTOM:	1308	sf
TOTAL LATERAL LENGTH:	436	lf
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	436	lf
SUPPLY LINE LENGTH:	100	lf
TOTAL DYNAMIC HEAD:	0.00	gpm
DOSING VOLUME:	0.00	gal
PUMP TANK DRAW DOWN*:	0.0	in
SEPTIC TANK SIZE:	1000	
PUMP TANK SIZE:	n/a	

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

1137 Fern Hill Road

Layout for a 4 bedroom home **July 2020**

LINE #	FLAG COLOR	BS	HI	FS	ELEV	FLAGGED LENGTH	DESIGN LENGTH
TBM							
INSTR. 1							
			REPAIR				
1	Yellow					100	100
2	Blue					130	128
3	Pink					150	148
4A	Red					116	60
			SYSTEM				
4B	Red					116	56
5	Orange					158	116
6	Yellow					175	132
7	Blue					164	132

	LINE LENGTH	LTAR GPD/FT²	SYSTEM TYPE	REDUCTION TYPE	DIST	TRENCH DEPTH
SYSTEM	436	0.275	ACCEPT	25%	GRAVITY	24
REPAIR	436	0.275	ACCEPT	25%	GRAVITY	24

Notes:

**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

APPROVED JUL 22 2020

CALCULATIONS

Location 1137 Fern Hill Road

Project Number 20-1037

Lot No:	32	Fernleaf
No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.275	$^{gal}/_{ft^2\ day}$
Accepted? (YES OR NO)	Yes	
Supply Line Length	100	ft.
Supply Line Volume	38.4	gal.
Required Feet of Line	436	ft.
Amount of Line from Layout	436	ft.
Gallons per Minute	0.00	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	284.708	gal.
Dosing Volume	0.00	gal.
Tank Draw Down	0.0	in.
		Generic Draw Down of 21 gal.per in.
Pump Run Time	#DIV/0!	minutes
Elevation Head	0	ft.
Pressure Head	0	ft.
Friction Factor	0	ft./100 ft. *(From the interpolater.)*
Friction Head	0.00	ft.
Elevation Head +15%	0	
Total Dynamic Head	0.00	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
27.4	1.51
30	1.78
	-1.76
35	2.37
37	2.63
40	3.03
42.7	3.43
45	3.77
46.51	4.01
50	4.58
57.11	5.89
60	6.42

Four (4) Bedroom Accepted Septic System Design using Gravity Distribution for 1137 Fern Hill Road
PIN 4638280638

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Agent Authorization---------- 14

Owner: Jeffrey & Gwyn Oakley
607 240-9185
112 N River Hills Drive Spartanburg, SC 28117
Job #'20-1037
Design By: Soil & Forestry Services of the Carolinas, PA

APPROVED JUL 22 2020

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 DHH, and certification supplied by the manufacturer.
- The installer shall be responsible to the owner for placement of the tanks and to ensure (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
- 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 ensure (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.
- Elevations at pinflag locations should be checked by the installer prior to beginning
- Septic tank riser shall be a minimum of 6" above finished grade.
- **System specified as accepted type using gravity distribution**
- **Repair specified as accepted type using gravity distribution**
- **Trench depth specified at 24"**
- **System trenches installed on 9' minimum; 3' wide trenches**
- **Iredell County has approval to move tank or distribution device**

APPROVED JUL 2 2 2020

PROPERTY ID #: 4638280638
COUNTY: Iredell

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

OWNER: Jeff Oakley
ADDRESS:
PROPOSED FACILITY: New House
PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: 1137 Fern Hill Road
WATER SUPPLY: x☐ Private ☐ Public x☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring x ☐ Pit ☐ Cut

APPLICATION DATE
DATE EVALUATED: 4/10/2020
PROPERTY SIZE: 3.1 ac
PROPERTY RECORDED:
TYPE OF WASTEWATER: x ☐ Sewage ☐ Industrial Process ☐ Mixed

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	.1956 SAP CLASS	.1944 RESTR HORIZ	
1	R / 4%	0-3	B SL WFGr	Fr SS SP	N/A	49	PS		PS .3
		3-13	R C WMA/S	Fi SS SP compact					
		13-30	BR CL WMS	Fr SS SP few sap					
		30-49	BR CL WFS	Fr SS SP com sap					
		49-60	VAR L MASS	Fr SS SP					
2	R / 4%	0-9	BR CL WMA	Fi SS SP	N/A	9	PS		PS .4
		9-60	VAR SL MASS	VFr NS NP					
3	L / 5%	0-10	RB CL WMS	Fi SS SP compact	N/A	45	PS		PS .275
		10-27	R C WMA/S	Fr SS SP					
		27-45	YR CL WFS	Fr SS SP c sap					
		45-56	VAR L MASS						
4	L / 5%	0-10	RB CL WCA	Fi SS SP compact	N/A	34	PS		PS .275
		10-34	RB CL WFS	Fr SS SP f sap					
		34-60	VAR L MASS	VFr NS NP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	436	436
System Type(s)	ACCEPTED	ACCEPTED
Site LTAR	.275	.275

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

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

PROPERTY ID #: 4638280638
DATE OF EVALUATION: 4/10/20
COUNTY: Iredell

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	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
P 5	L / 5%	0-11	YB SL WFGr	Fr SS SP compact	N/A	50	PS		PS .275
		11-38	R SC WMA	Fi SS SP					
		38-50	BR L WFS	Fr SS S[					
		50-60	VAR L MASS	VFr NS NP					
P 6	L / 5%	0-6	B SL WFGr	Fr SS SP	2 chroma 18-24"	54	N/A		PS .1 DRIP
		6-24	RB CL WFS	Fr SS SP					
		24-38	R C MMA	Fr SS SP					
		38-54	R CL WFS	Fr SS SP					

COMMENTS: _____

RECEIVED JUL 8 - 2020

APPLICATION MUST BE FILLED OUT COMPLETELY & BE LEGIBLE OR IT WILL NOT BE PROCESSED

Paid $350.00

Iredell County Health Department – Environmental Health Division

PAGE 1: *APPLICATION FORM*

AP-306207

Application For: (X) 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.

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

The following optional attachments may also be submitted: (X) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable (X) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: **(PRINT CLEARLY)**

Applicant Name: Jeffrey Oakley **Address:** 1137 Fern Hill Rd **Zip:** 28117

Applicant Email: jeffoakley325@gmail.com **Phone:** 607-240-9185 **Alt. Phone:**

Owner Name: Jeffrey A. and Gwyn P. Oakley **Address:** 112 N River Hills Dr **Zip:** 29303

Owner Email: jeffoakley325@gmail.com **Phone:** 607-240-9185 **Alt. Phone:**

Property Information:

Street Address: 1137 Fern Hill Rd, Mooresville, NC 28117

Subdivision Name: Fernleaf Subdivision **Section/Phase:** 2 **Lot Number:** 32

Driving Directions: Perth Rd to Fern Hill Rd to 1137 Fern Hill Rd on left. Black mailbox marked with 1137

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

(X) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem:

Maximum Number of Bedrooms: 4
Maximum Number of Occupants: 8
(X) Swimming Pool (Future Plan)
( ) Other Addition/Structure:

CHECK FOUNDATION TYPE

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

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:

(X) 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:
( ) No Preference ( ) Alternative (X) Conventional (X) 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: Jeffrey A Oakley July 1, 2020
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

(Check and sign only ONE of the options below)

☐ **1. * APPLICANT AND OWNER ARE THE SAME. *** (*Sign here*) _____

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.

☐ **2.** I, Jeffrey A. and Gwyn P. Oakley, am the legal owner(s) of the property located at 1137 Fern Hill Rd, Mooresville NC 28117, identified as PIN (Parcel Identification Number) 4638-28-0638.000, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Wendell Overby, Soil & Forestry 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.

Jeffrey A Oakley Gwyn P. Oakley — July 1, 2020

Signature of Owner(s) — Date

Mooresville - Environmental Health

Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

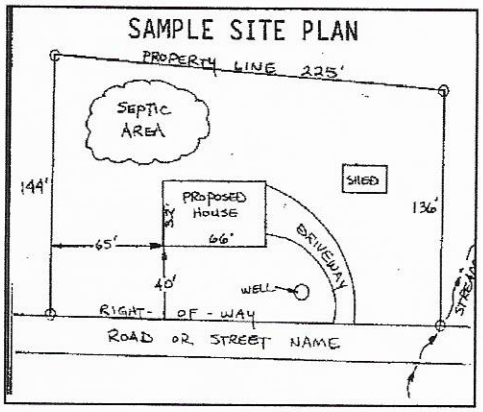
Statesville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

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

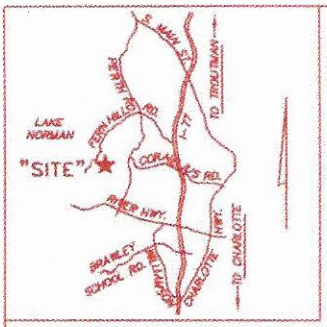
SEE ATTACHED

Signature: Wendell Cg

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

7/7/2020

DATE



VICINITY MAP (N.T.S.)

MIN. BLDG. SETBACKS
(PER MAP BK. 58 – PG. 116)

FRONT = 35 FT.
SIDE = 15 FT.
REAR = 35 FT.

35 FT. MAX. BLDG. HEIGHT
PER MAP BK. 58 AT PG. 116

THIS DRAWING IS THE PROPERTY OF WARREN JENNINGS LAND SURVEYING. THE REPRODUCTION, ALTERATION, COPYING OR OTHER USE OF THIS DRAWING FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY THE WRITTEN CONSENT OF WARREN JENNINGS LAND SURVEYING IS PROHIBITED.

NOTES

1) SURVEY WAS CONDUCTED MARCH 17, 2020.
2) OWNERS OF RECORD ARE JEFFREY ALLEN OAKLEY & GWYN PAULINE OAKLEY (BK. 2689 AT PG. 2035). PARCEL I.D. #4638280638
3) BEING LOT 32 AS SHOWN ON PLAT OF FERNLEAF SUBDIVISION – PHASE 2 (MAP BOOK 58 AT PAGE 116).
4) ADJOINING PROPERTY INFORMATION TAKEN FROM IREDELL COUNTY G.I.S. AT TIME OF SURVEY.
5) AREA (COMPUTED BY COORDINATE GEOMETRY METHOD) IS 3.1000 ACRES (135,035 S.F.).
6) PROPERTY MAY BE SUBJECT TO ANY AND ALL EASEMENT(S) OR RIGHT(S) OF WAY, WHETHER WRITTEN OR UNWRITTEN, RECORDED OR UNRECORDED. VISIBLE EVIDENCE INDICATING SUCH USE OF THE LAND IS SHOWN.
7) THIS MAP WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO AN UP–TO–DATE TITLE SEARCH. THIS SURVEYOR MAKES NO GUARANTEE THAT ALL EASEMENT(S), RIGHT(S)–OF–WAY OR OTHER RIGHT(S) OF RECORD EXIST OTHER THAN SHOWN.
8) PROPERTY ZONED "RA" PER MAP BOOK 58 AT PAGE 116.
9) DISTANCES HEREON ARE HORIZONTAL GROUND DISTANCES BASED ON THE U.S. SURVEY FOOT.
10) NO N.C./U.S. HORIZONTAL CONTROL MONUMENT FOUND WITHIN 2,000 FEET OF THIS SITE.
11) THIS PROPERTY IS SUBJECT TO COVENANTS, CONDITIONS & RESTRICTIONS OF RECORD.
12) SUBJECT TO UTILITY & DRAINAGE EASEMENT ALONG FRONT, SIDES & REAR TEN (10) FT. OF LOT PER MAP BOOK 58 AT PAGE 116.
13) SUBJECT TO TREE SAVE BUFFER ALONG EASTERLY TEN (10) FT. AND REAR SIXTY (6) FT. OF LOT PER BK. 2689 AT PG. 2035.
14) HOUSE FOOTPRINT SHOWN HEREON TAKEN FROM FOUNDATION PLAN (SHEET A2.0) OF UNSIGNED/UNSEALED PLANS ENTITLED "OAKLEY RESIDENCE" AS PREPARED BY ROBERT SMITH DESIGN, DATED JUNE 1, 2020 (MARKED FOR CONSTRUCTION).

LEGEND

℄ = CENTERLINE
R/W = RIGHT OF WAY
N.T.S. = NOT TO SCALE
= SURVEYED BOUNDARY
= BOUNDARY NOT SURVEYED
= FOUND #4 REBAR
= SET WOOD STAKE ON LINE
(220.50') = MEASUREMENT OF RECORD
—E— = OVERHEAD ELECTRIC LINES

GROVER C. MOSS, III
PATSY C. MOSS
BK. 2118 – PG. 1635
MAP BK. 58 – PG. 116 (LOT 33)
PARCEL I.D. #4638283440
#1133 FERNHILL RD.

LOT 24
MAP BK. 58 – PG. 116

TIE L4

100.2'

86.8'

TIE L5

S52°43'42"W 187.01'

35' REAR YARD

117.5'

163.67'

LOT 25

N34°17'17"W 269.15'

15' SIDE YARD

MICHAEL TUZZOLINO
CALI LOUKAS
BK. 2662 – PG. 1526
MAP BK. 58 – PG. 116 (LOT 26)
PARCEL I.D. #4638188415
#680 KENWAY LOOP

103.2'

S29°36'55"E 558.67'

GRAVEL DRIVEWAY

105.49'

S56°51'52"W 67.65'

BLDG.

L2

DAVID L. NEESE
JENNIFER L. NEESE
BK. 2300 – PG. 1557
MAP BK. 61 – PG. 128 (LOT 27)
PARCEL I.D. #4638187564
#686 KENWAY LOOP

FORMER LOT 27
FORMER LOT 28

24.44'

17.42'

DETAIL
(N.T.S.)

PROPOSED FOUNDATION FOOTPRINT (SEE NOTE 14)
#1137 FERN HILL RD.

36.74'

15' SIDE YARD

46.14'

FORMER LOT 28
FORMER LOT 29

ROBERT MORRIS TEAGUE
CYNTHIA COFFEY TEAGUE
BK. 2300 – PG. 1554
MAP BK. 61 – PG. 128 (LOT 29)
PARCEL I.D. #4638186655
#698 KENWAY LOOP

88.4'

50'

LOT 34
MAP BK. 58 – PG. 116

73.0'

40'

SEE DETAIL FOR DIMS.

71.66'

N18°43'14"W

74.78'

UNDERGROUND "INVISIBLE" DOG FENCE *

RONALD BAKER
JANELLE BAKER
BK. 2670 – PG. 2498
MAP BK. 58 – PG. 116 (LOT 30)
PARCEL I.D. #4638186708
#704 KENWAY LOOP

LOT 1

POWER POLES

WELL

OVERHEAD ELECTRIC

125'

35' SETBACK

POWER POLE

GUY WIRES

133.03'

METAL PICKET FENCE

TIE (N.T.S.)
S36°04'56"W
226.83'

TIE L3

R/W

TIE LINE
S42°34'29"W 210.53'

S.R. #1300

C1

L1

R/W

R/W

GEORGE B. TOLBERT
JODI M. TOLBERT
BK. 2196 – PG. 618
MAP BK. 58 – PG. 116 (LOT 31)
PARCEL I.D. #4638186819
#712 KENWAY LOOP

"MAG" NAIL SET IN ℄ OF ROAD (AT POWER POLE)

MAP BK. 47 – PG. 117

(220.50')

TIE LINE (N.T.S.)
N88°19'26"E 247.62'

"MAG" NAIL SET IN ℄ INTERSECTION

KENWAY LOOP
S.R. #1398

R/W

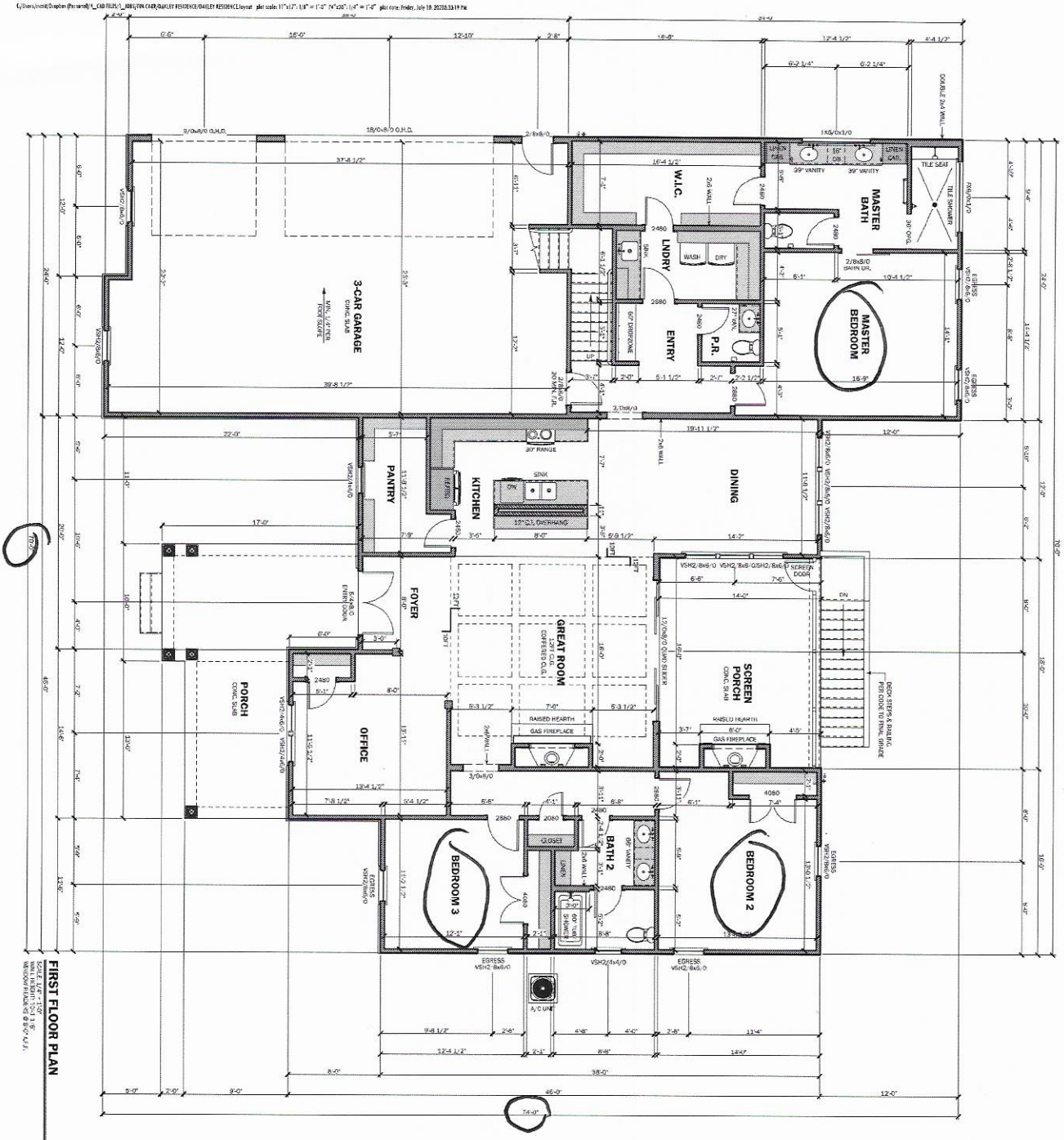
* LOCATION SHOWN HEREON BASED ON ABOVE GROUND EVIDENCE (PIN FLAGS).

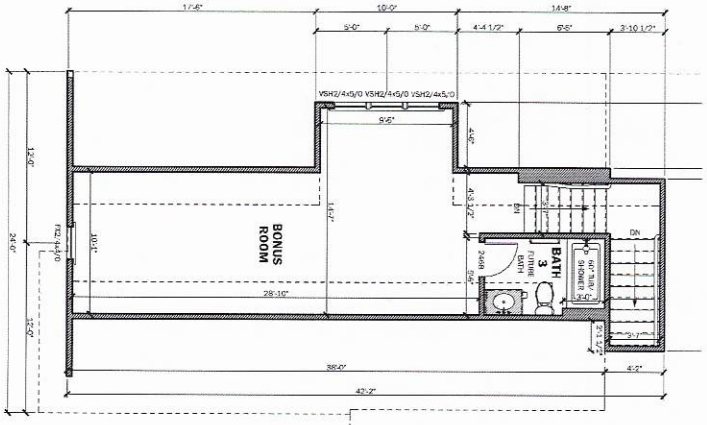
LINE TABLE		
LINE	LENGTH	BEARING
L1	106.36'	N81°31'22"E
L2	22.68'	N33°08'08"W
L3	100.03'	S59°05'12"W
L4	100.90'	S52°43'42"W
L5	73.26'	N52°43'42"E

BAR SCALE 1"=100'

0 25 50 100 200

PLOT PLAN FOR





Acknowledgement Of Plans Submittal ONLY!

Date 7/29/2020

Date 7/29/2020

Sheet Number	A3.0
Master Plan Version	v1.0
Drawn By	RES
Reviewed By	—
Plan Set Scale	1/4" = 1'-0" (24x36 sheet) 1/8" = 1'-0" (11x17 sheet)
Project Plan Date	7/10/2020
Drawing Set	FOR CONSTRUCTION
Sheet Title Description	FIRST FLOOR PLAN

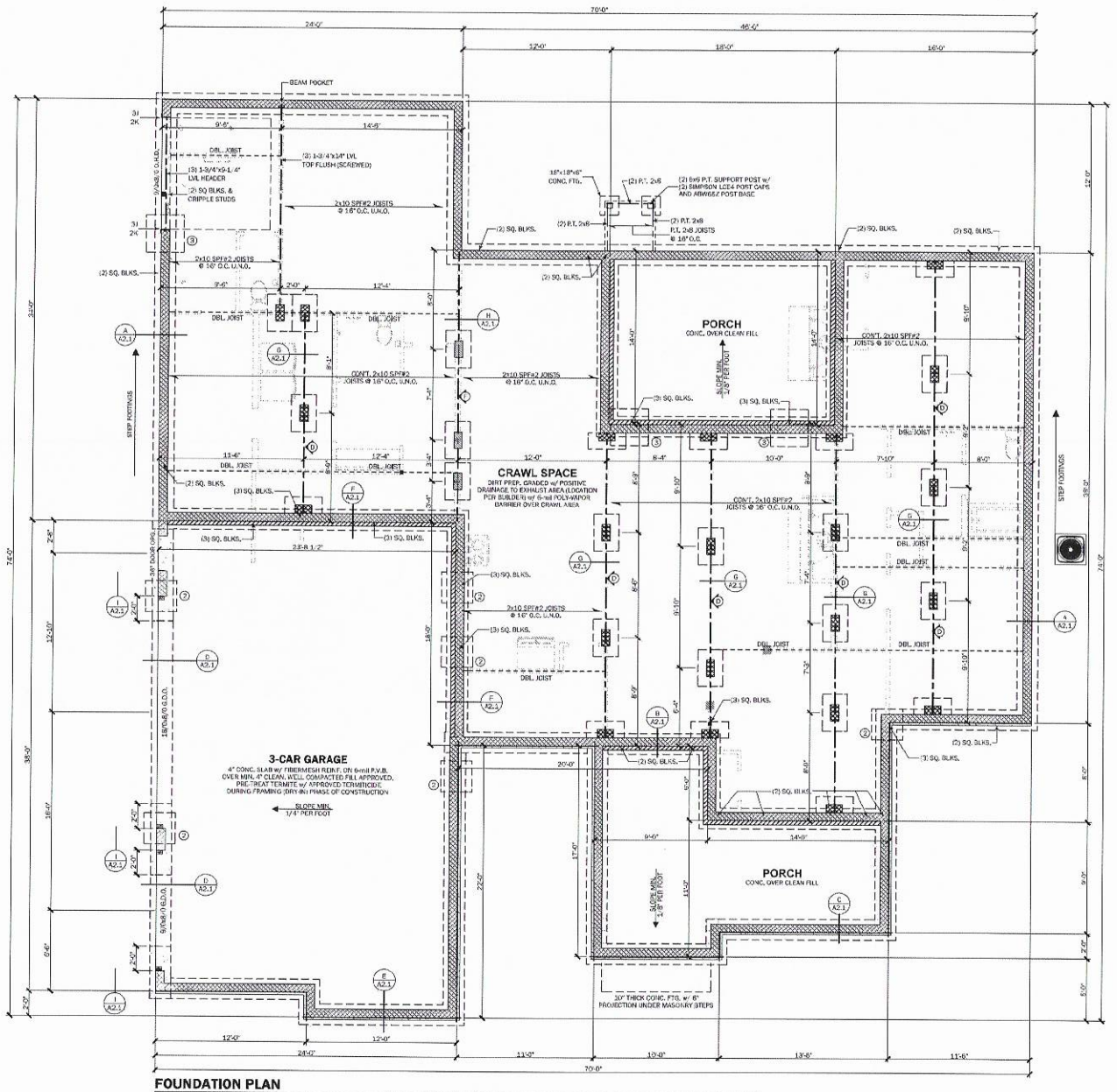
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Project Name/Owner
OAKLEY RESIDENCE
113 FERRIS TRAIL ROAD
MOORESVILLE, NC 28117

ROBERT SMITH DESIGN
16 WEDGE COURT
HOPEWELL, VA 23860
804-722-9464
877-226-4781
www.robertsmithdesign.com

Engineer
IDE
INTELLIGENT DESIGN ENGINEERING
1940 J.W. FRASER PLACE
SUITE 100
CHARLOTTE, NC 28262
CHAD RITTER, P.E.
CRITTER@IDE-ENGINEERING.COM
704-535-7200

Municipal
TOWNSHIP/COUNTY



FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

CRAWL SPACE NOTES

FOUNDATION NOTES FOR NEW FOUNDATION:

1. ALL NEW PERIMETER WALL FOOTINGS SHALL BE CONTINUOUS 16"x8" MINIMUM, 3000 PSI CONCRETE U.N.O.
2. ALL NEW INTERIOR PIERS ARE 8"x16" CMU WITH 24"X24"X16" FOOTINGS U.N.O. FULLY GROUT PIERS >32" TALL, UNLESS OTHERWISE NOTED.
3. "SLAB ON GRADE" SHALL CONSIST OF 4" THICK, 3000 PSI CONCRETE WITH FIBERMESH REINFORCEMENT OR 6X6 W1.4XW1.4 WWF, OVER 6 MIL VAPOR BARRIER, OVER 4" CLEAN STONE & OVER COMPACTED FILL. IN GARAGES AND DRIVEWAYS INSTALL TOOTHED CONTROL JOINTS NO GREATER THAN 12 FEET IN EACH DIRECTION.
4. ALL SOILS AND FILL UNDER FLOORS WITHIN AND/OR UNDER BUILDINGS SHALL HAVE PRECONSTRUCTION SOIL TREATMENT FOR PROTECTION AGAINST TERMITES. CERTIFICATION OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY.
5. SHIMS USED BETWEEN MASONRY PIERS AND WOOD GIRDERS SHALL CONSIST OF EITHER SOLID WOOD OR MULTIPLE STEEL SHIMS EQUAL IN WIDTH TO THE GIRDER AND FULLY CONTACT AT LEAST 6" THE LENGTH OF THE PIER.
6. IF DOUBLE 2-2X10 RIM BAND IS USED THEN SQUASH BLOCKS ARE NOT REQUIRED ALONG PERIMETER WALLS.
7. ALL JOIST AND GIRDER FRAMING IS SPF#2

FOOTING SCHEDULE

ID	FOOTING SIZE	REINFORCING
1	24"x24"x12" DEEP	3 - #4's EACH DIRECTION
2	30"x30"x12" DEEP	4 - #4's EACH DIRECTION
3	36"x36"x12" DEEP	4 - #4's EACH DIRECTION
4	42"x42"x12" DEEP	5 - #4's EACH DIRECTION
5	48"x48"x12" DEEP	5 - #4's EACH DIRECTION

DROPPED PIER

FLUSH PIER

ALL PIERS TO BE 8"x16" CMU ON 24" x 32" x 8" DEEP CONC. FOOTING

(D) (3) 2x10 SYP#1 OR SPF#2 GIRDER (DROPPED)

(F) (3) 2x10 SYP#1 OR SPF#2 GIRDER (FLUSH)

FOUNDATION NOTES:
1. ALL DIMENSIONS SHALL BE VERIFIED AGAINST ARCHITECTURAL FLOOR PLANS FOR ACCURACY
2. TRANSFER ALL POINT LOADS FROM FIRST AND SECOND FLOOR TO BEAM AND ROOF TRUSS BEARING ABOVE FOUNDATION WITH EQUAL AMOUNT OF STUDS.
3. ALL CONCRETE TO BE A MIN. OF 3,000 PSI U.N.O.
4. SOIL TO HAVE A MIN. OF 2,000 PSF BEARING CAPACITY

ROBERT SMITH DESIGN
10 WEDGE COURT
POTTSTOWN, PA 19464
877-236-9183
www.robertsmithdesign.com

Township/County: TOWNSHIP COUNTY

Engineer:
IDE INTELLIGENT DESIGN ENGINEERING
INTELLIGENT DESIGN ENGINEERING, PLLC
INTELLIGENT DESIGN ENGINEERING
1945 J N PEASE PLACE
#201
CHARLOTTE, NC 28262
CHAD BITTER, P.E.
CORPORATE LIC. #C-3119
704-335-7290

Stamp/Seal:

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 31999 CHAD T. BITTER

SIGNATURE

Project Name/Owner:
OAKLEY RESIDENCE
1137 FERN HILL ROAD
MOORESVILLE, NC 28117

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Date: 7/10/2020

Drawn By: RES

Reviewed By: ---

Plan Set Scale:
24x36 sheet
1/4" = 1'-0"
11x17 sheet
1/8" = 1'-0"

Project Plan Code: ---

Drawing Set: FOR CONSTRUCTION

Sheet Title Description: FOUNDATION PLAN

Sheet Number: **A2.0**

Master Plan Version: v1.6

IREDELL COUNTY · NC

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

APPLICATION NUMBER
306207 Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4638280638.000		Iredell County

Owner Information	Applicant Information
Name: MOSS GROVER C III+PATSY C	Name: JEFF OAKLEY
Address:	Address: 112 N RIVER HILLS DR
,	SPARTANBURG, SC 29303
Phone:	Phone:

Use Requested	Zone Code
	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
3.1	0	0	0	0	WSIV-CA Catawba/Lake Norman	NO

Remarks
ZONING ONLY

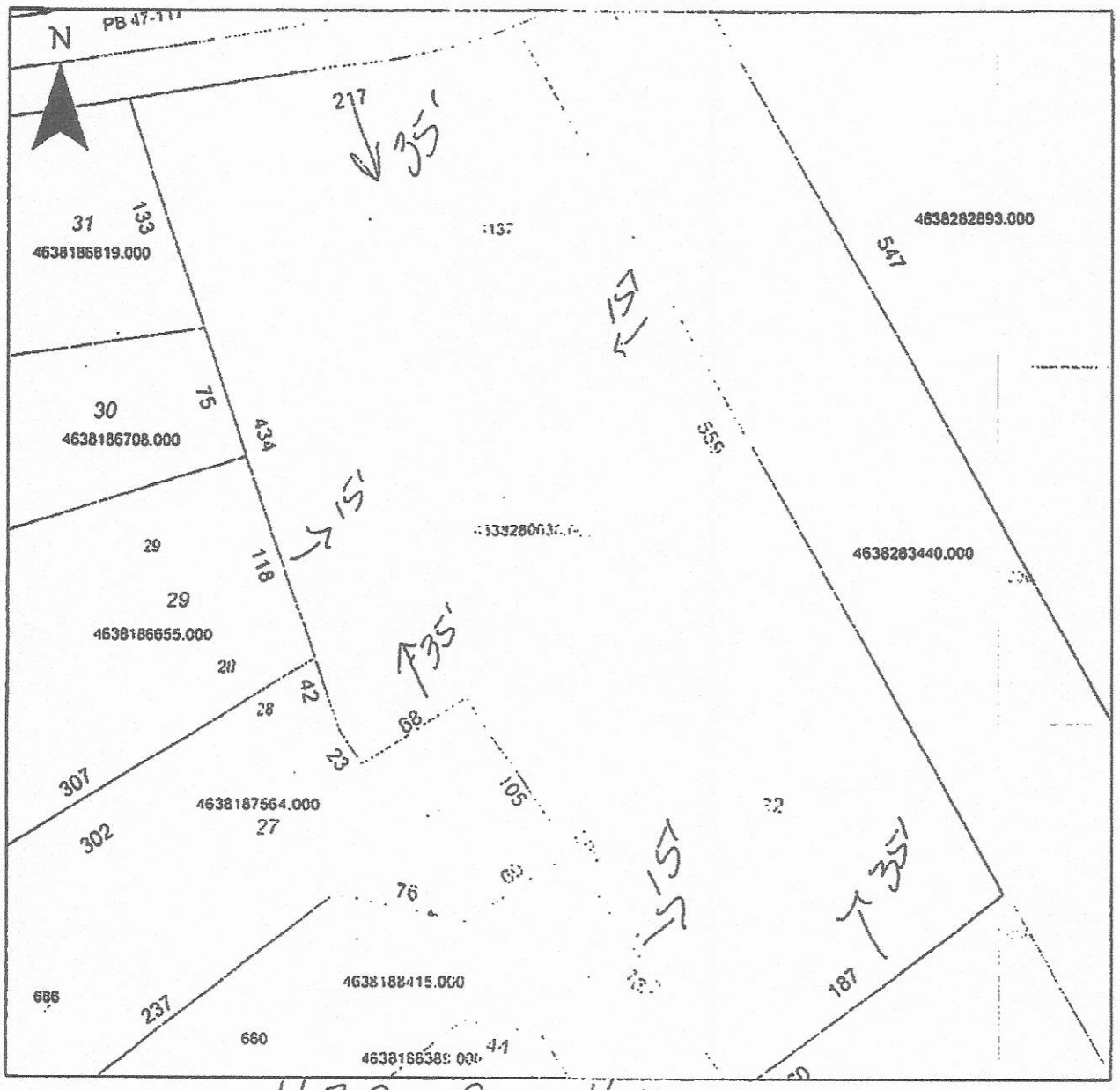
The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. The applicant further acknowledges that enforcement of deed restrictions,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

Date: 03/20/2020

Signature of Owner/Contractor

Permit Number	306207	TOTAL FEES:	$77.25

ZONING DISCLAIMER



Property Address 1137 Fern Hill

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 Jeffrey A Oakley

JEFFREY A OAKLEY

7/7/2020

Date