IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 228539.

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

PIN # 4715853104

APPLICANT/OWNER: Castlegate LLC APPLICANT ADDRESS: 282 Scotts Creek RD SVC 28625

SITE ADDRESS: 173 Staffordshire Drive SVC NC PHONE: ~ ALT. PHONE Kathleen Sanders 704 578 4951

SITE DIRECTIONS: I-40 exit 148 Hwy 64 Right on Taylorsville Hwy Left on Absher Farm Loop. SAP CONTROLLED: [X] YES [ ] NO

SUBDIVISION: Castlegate SECTION: ~ LOT # 121 LOT AREA: .49 DESIGN FLOW: 360 L.T.A.R.: .3

Septic Tank	1000	(gal)	STB	825	Date	6/2/18	[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:	50% Reduction			[ ] Other	No. Employees		[X] Public			
# Nitrification Fields	1	# Lines	4		Linear Ft	300	Maintenance Agreement Required:	[ ] YES	[X] NO		[X] Slab	[ ] Crawl Space		[ ] Community			
Trench Width	36	Trench Bottom Depth(Low side)		34	Gravel Depth	~		[X] GRAVITY	[ ] PRESSURE		[ ] Basement w/plumbing			[ ] Basement w/o plumbing			

Comments / Conditions:

INITIAL SITE SKETCH

See Site & Septic Design by the Davis Group, PA Kathleen Sanders LSS# 1313

68 78 82 228

2 14 19 21 19 73 x 4 292

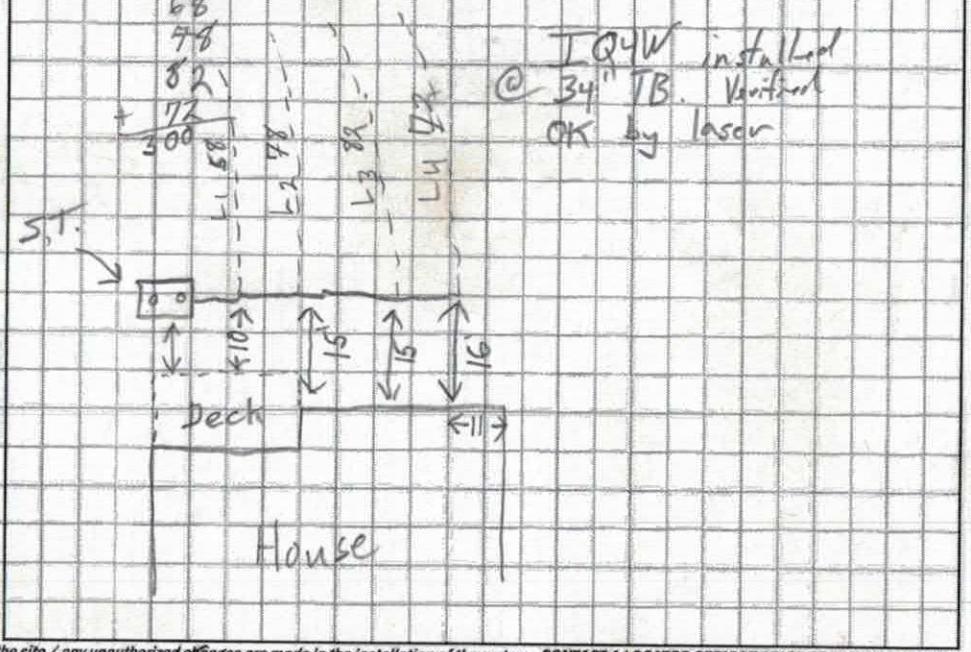
AS BUILT SKETCH

Called 7/5/18 & left msg. (ad)

7/20/18 Mid-seam 1000-gal Rowan Septic w. a Tuff-Tite EF-6 Filter

68 78 82 72 300

IQ4W installed @ 34" TB. Verified OK by laser



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.* [ ] **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Kathleen Sanders Date: 7-19-18 Installed by: Rowan Septic

IMPROVEMENT PERMIT by: Benjamin A Botkins Date: 8/1/2017 OPERATION PERMIT by: Tom Shuck Date: 7/20/2018

AUTHORIZATION TO CONSTRUCT by: Benjamin A Botkins Date: 1/4/2018 Existing System Inspected by: Date:

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: 282 Scotts Creek Dr Statesville
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: Castlegate #121
APPLICATION DATE
DATE EVALUATED: 6/5/17
PROPERTY SIZE: 0.491Ac
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 5%	0-12	Mo SBK C	FR SS/SP	R	42"	PS	N/A	0.3
		12-42	WK SBK CL	↓	R; C Sap Mu/Fi				
		42-55	MA L Sap	↓					
2	L 5%	0-27	Mo SBK C	FR SS/SP	R	54"+	N/A	N/A	0.3
		27-54	WK SBK CL	↓	YR; R; C/1 Sap				
3	L 5%	0-23	Mo SBK C	FR SS/SP	R	45"	PS	N/A	0.3
		23-45	WK SBK CL	↓	R; C Sap Mu/Fi				
		45-56	MA L Sap	↓					
4	L 5%	0-24	Mo SBK C	FR SS/SP	R, F Sap	42"	PS	N/A	0.3
		24-42	WK SBK CL	↓	R; C Sap Mu/Fi				
		42-60	MA L Sap	↓					

APPROVED AUG - 1 2017 B. Beacon

APPROVED AUG 1 2017 B. Beacon

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	II 9	IV
Site LTAR	0.3	0.3

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

COMMENTS:

Lot 121 Castlegate Fast Track - The Oaks Group, PA

Number of Bedrooms	**3**
Basement or Crawl	**Concrete Slab/Crawl Space**
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)	36"
Maintenance Agreement Required	No
Repair System	**LP PPBPS**
Total Linear Feet	200
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	Blue	LP PPBPS	45
2	Repair	Red	LP PPBPS	70
3	System	Pink	25% Reduction	55 endfed
4	System	Orange	25% Reduction	75 endfed
5	System	Blue	25% Reduction	84 endfed
6	System	Red	25% Reduction	86 endfed
7	Repair	Pink	LP PPBPS	85
				Total System: 300'
				Total Repair: 200'

APPROVED AUG - 1 2017
B. Bollinger ICHD.

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

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 as recorded in the Iredell County Register of Deeds.

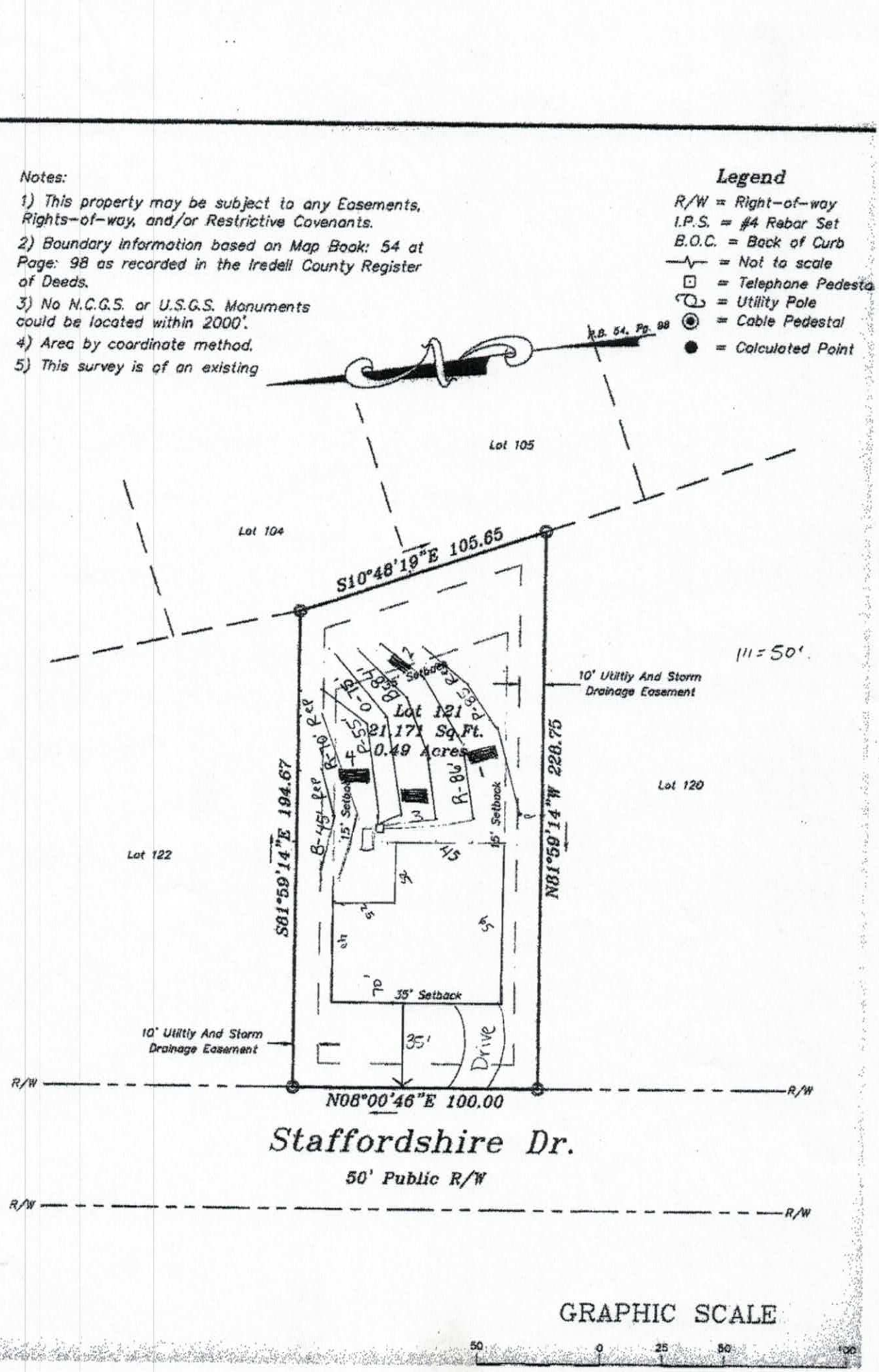
3) No N.C.G.S. or U.S.G.S. Monuments could be located within 2000'.

4) Area by coordinate method.

5) This survey is of an existing

Legend

R/W = Right-of-way
I.P.S. = #4 Rebar Set
B.O.C. = Back of Curb
= Not to scale
= Telephone Pedesta
= Utility Pole
= Cable Pedestal
= Calculated Point



GRAPHIC SCALE

50 0 25 50 100

THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

RE: 173 Staffordshire Dr

Date: July 25, 2017

Attached is the septic specification information required to permit the 173 Staffordshire Dr 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

Non-expiring

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonme
( ) *Septic Improvement Permit* (X) *Authorization to Construct* ( ) *Existing System Inspection* ( ) *Septic System Re*

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

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

Applicant Information: Contact Kathleen Saunders (704) 578-4951

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

Owner Name: Same **Address:** **Phone:**

Property Information:

Street Address: 173 Staffordshire Dr Statesville

Subdivision Name: Castlegate **Section/Phase:** **Lot Number:** 121

Driving Directions: Interstate 40 exit on to Hwy 64, Right on Taylorsville Hwy, L on Absher Farm Loop, L on Staffordshire, Lot on left

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 max
( ) Swimming Pool
( ) Other Addition/Structure:

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

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 (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 gra right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for 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: Emma Holt / Kathleen Saunders 1/2/18
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 Short, am the legal owner of the property located at 173 Staffordshire Dr, identified as PIN(Parcel Identification Number) 4715-85-3104, located in Iredell County, North Carolina.

I do hereby authorize (print authorized agent/company name) The Oaks Group, _____, _____, _____, 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.

_____ 7/25/17
Signature of Owner Date

_____ _____
Signature of Witness Date

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION:*

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...**

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

X **Front and side setbacks from property line...**

X **Preferred driveway location and configuration, preferred well location...**

X **Area you prefer your septic system to be placed...**

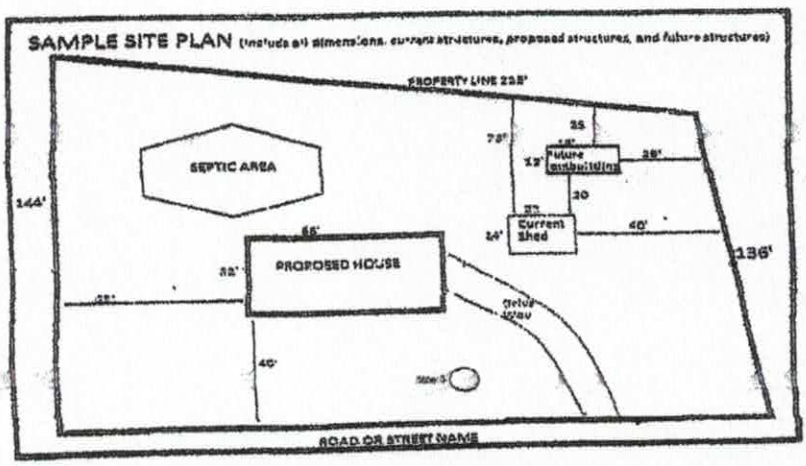
X **North arrow, or other sufficient indicator of direction...**

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

Please see attached site plan

Signature: Emma Hall / Kathleen Saunders

REQUIRED property owner or owner's legal representative signature.

1/2/18

DATE

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 as recorded in the Iredell County Register of Deeds.

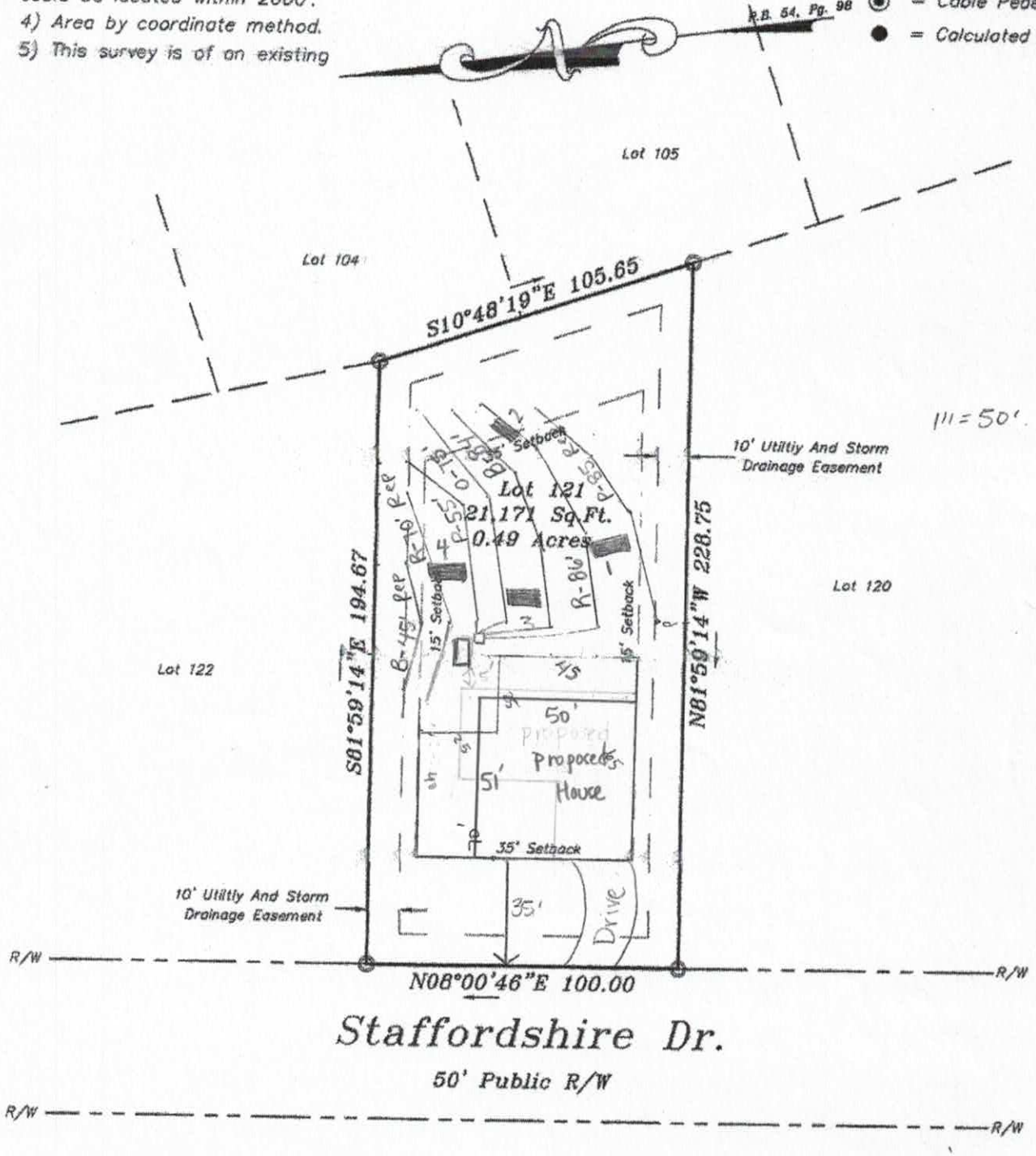
3) No N.C.G.S. or U.S.G.S. Monuments could be located within 2000'.

4) Area by coordinate method.

5) This survey is of an existing

Legend

R/W = Right-of-way
I.P.S. = #4 Rebar Set
B.O.C. = Back of Curb
= Not to scale
= Telephone Pedest
= Utility Pole
= Cable Pedestal
= Calculated Point



GRAPHIC SCALE

50 0 25 50 100

Acknowledgement of Plans Submittal ONLY!

Kathleen Saunders Date 1/2/18

Benjamin Butt Date 1/4/2018

HW - 6.00

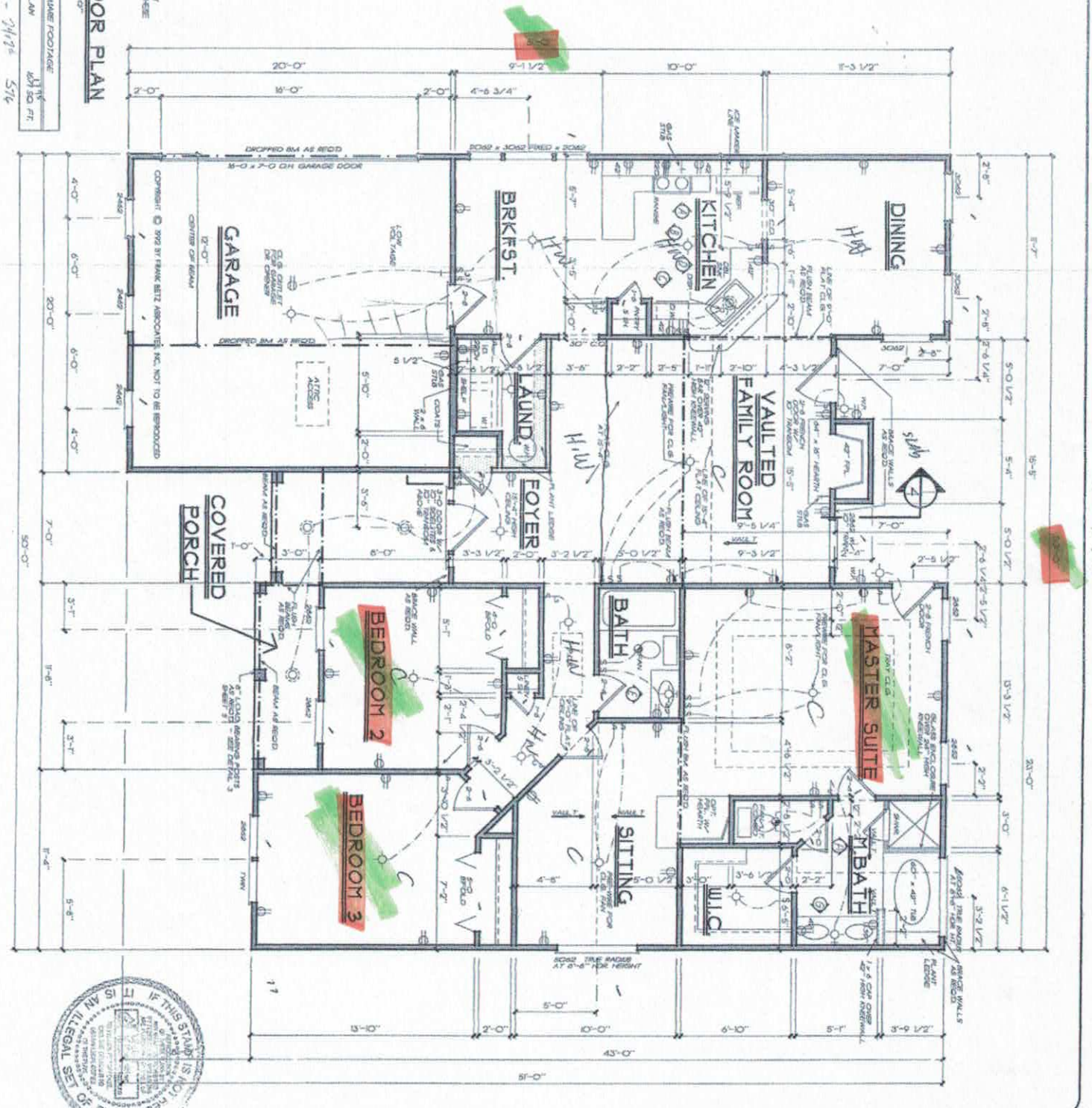
FRANK BETZ ASSOCIATES, INC. ASSUMES NO LIABILITY FOR ANY CHANGES OR MODIFICATIONS MADE TO THESE PLANS BY OTHERS

FLOOR PLAN

1/4" = 1'-0"

SQUARE FOOTAGE	
FLOOR PLAN	1,478 SQ. FT.

Finish - 2472 sq ft



COPYRIGHT © 1992 BY FRANK BETZ ASSOCIATES, INC. NOT TO BE REPRODUCED

IF THIS STAMP IS NOT RED IT IS AN ILLEGAL SET OF PLANS

SHEET	DATE	BY
3 of 5	7-15-92	BMW & JEC

FBA
FRANK BETZ ASSOCIATES, INC.
1800 LAKE PARK DRIVE/SUITE 101
SMYRNA, GEORGIA 30080
770/438-0888

FLOOR PLAN
THE MARSHALL

HOMEPLANS

DATE	REV	DATE	REV
3-6-96	CLAR M-12		
1-20-97	CLAR M-12		

This drawing is not to be reproduced or used for construction any building without the written authorization of Frank Betz Assoc., Inc.