ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # OSWP-2023-41669 | (10) BLDR-2023-38644

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

PIN # 4761 -- 59 -- 6575

APPLICANT/OWNER: ADAM NAYLOR | APPLICANT ADDRESS: 661 REBECCA JANE DRIVE, MOORESVILLE, N.C. 28115

SITE ADDRESS: 164 WYLIE TRAIL, STATESVILLE, N.C. 28677 | PHONE: 704-361-5437 | ALT. PHONE —

SITE DIRECTIONS: (E) ON 70, (R) ON BETHESDA, (L) ON NORTH LAKE, (L) MOUNTAIN ISLAND, (R) ON WYLIE, LOT ON (R) | SAP CONTROLLED: ☐ YES ☑ NO

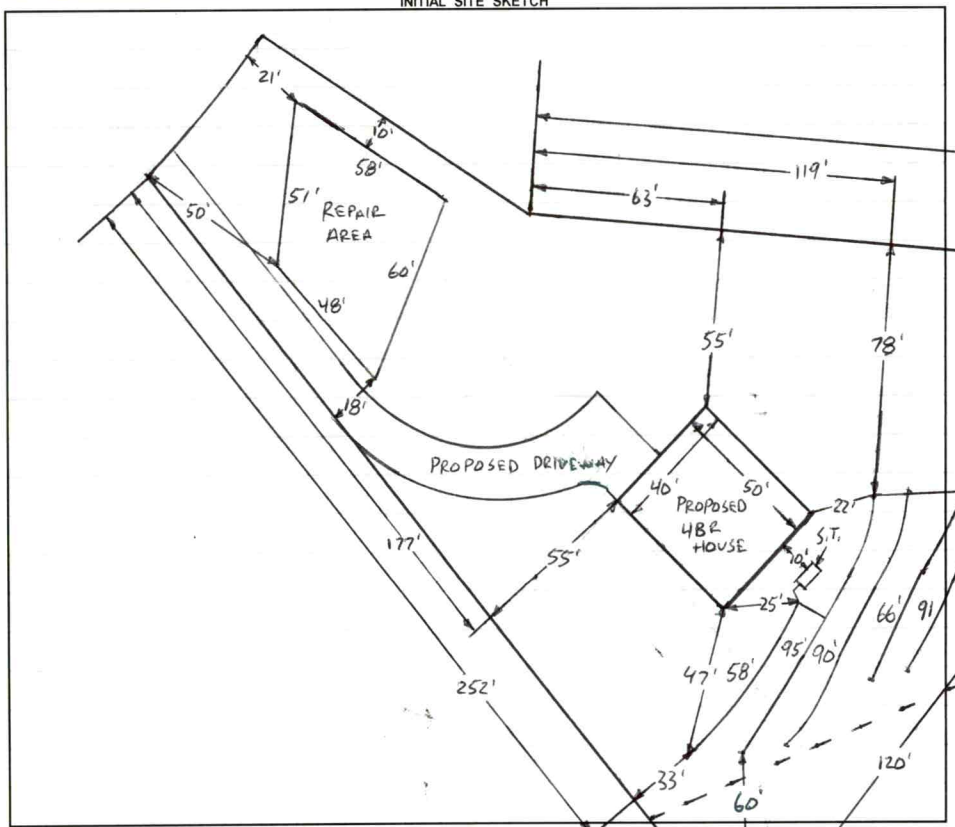
SUBDIVISION: NORTHLAKE | SECTION: 2 | LOT # 26 | LOT AREA: 1.69 AC | DESIGN FLOW: 480GPD | L.T.A.R.: 0.25

Septic Tank	1000 (gal)	STB		Date	Infiltrator	☑ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI
Pump Tank	— (gal)	PT	—	Date	—	System Description:	25% REDUTION		
Pump Make	—	Model	—	Serial #	—	Repair System Description:	50% REDUCTION		
# Nitrification Fields	1	# Lines	6	Linear Ft	483 FT	Maintenance Agreement Required:	☐ YES	☑ NO	
Trench Width	36 IN	Trench Bottom Depth(Low side)	28 IN	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

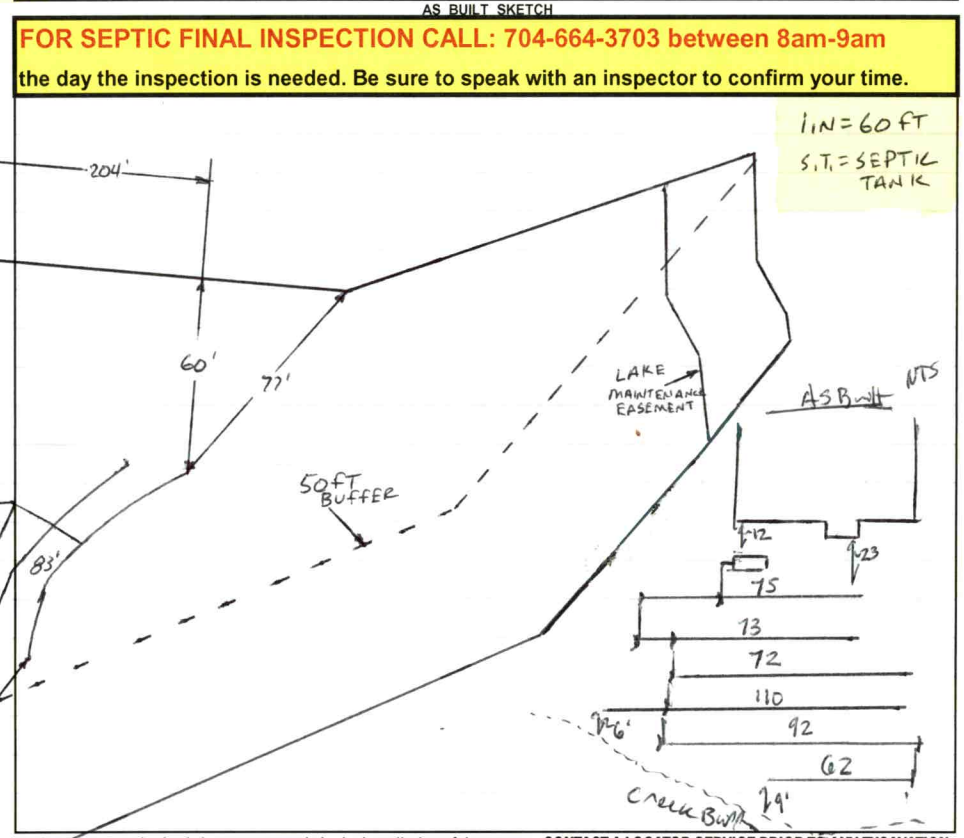
Comments / Conditions: INSTALL ON CONTOUR INSTALL ON 9FT CENTERS, UTILIZE SERIAL DISTRIBUTION, DO NOT EXCEED A 34 IN MAX TRENCH DEPTH
DO NOT SHALLOW, BUFFER + PROPERTY LINES MUST BE MARKED AT TIME OF INSTALL

INITIAL SITE SKETCH



AS BUILT SKETCH

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 time.



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: ONLINE SIGATURE | Date: — | Installed by: Specialty Septic James O'Daniel

IMPROVEMENT PERMIT by: Burnett C. White | Date: 12-19-2023 | OPERATION PERMIT by: Bryan A Ball | Date: 4/19/2024

AUTHORIZATION TO CONSTRUCT by: Burnett C. White | Date: 12-19-2023 | Existing System Inspected by: | Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

Item	Date	Initials
Drain Lines Checked		
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y / N		
Comments:		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	

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

Sheet 1 of 1
PROPERTY ID #: 4761-59-6575
COUNTY: IREDELL

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

OWNER: ADAM NAYLOR — APPLICATION DATE 11-22-2023
ADDRESS: 661 REBECCA JANE DRIVE, MOORESVILLE, N.C. 28115 — DATE EVALUATED: 12-11-2023
PROPOSED FACILITY: 4BR — PROPOSED DESIGN FLOW (.1949): 480GPD — PROPERTY SIZE: 1.69 AC
LOCATION OF SITE: 164 WYLIE TRAIL, STATESVILLE, N.C. 28677 — 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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LINEAR SIDE 5%	0-20	L, ABK	FR, S, P, SEXP	SAP INC THRU OUT	41"	NA	ROCK 41"	PS .3
		20-41	CL, WABK	FR, SS, SP, SEXP					
		41+	BHR	ROCK					
2	LINEAR SIDE 4%	0-11	L, ABK	FR, S, P, SEXP	SAP INC THRU OUT	35"	PS II SL	NA	PS .3
		11-35	CL, WABK	FR, SS, SP, SEXP					
		35-56	SAP, MAS	FR, NS, NP, SEXP					
3	LINEAR SIDE 12%	[redacted]	0-18/SCL, SBK	FR, SS, SP, SEXP	SAP INC THRU OUT FEW YB 10"-18"	58"+	NA	NA	PS .25
		[redacted]	18-58/CL, ABK	FR, SS, SP, SEXP					
4	LINEAR SIDE 12%	0-10	FR, SS, SP, SEXP	~~FR, SS~~ SCL, SBK	SAP INC THRU OUT	53"+	NA	NA	PS .275
		10-22	FR, S, P, SEXP	~~FR, S~~ CL, ABK					
		22-51	FR, SS, SP, SEXP	~~FR~~ CL, WABK					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25%	50%
Site LTAR	0.25	0.3

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

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
D (Drainage Way)						CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

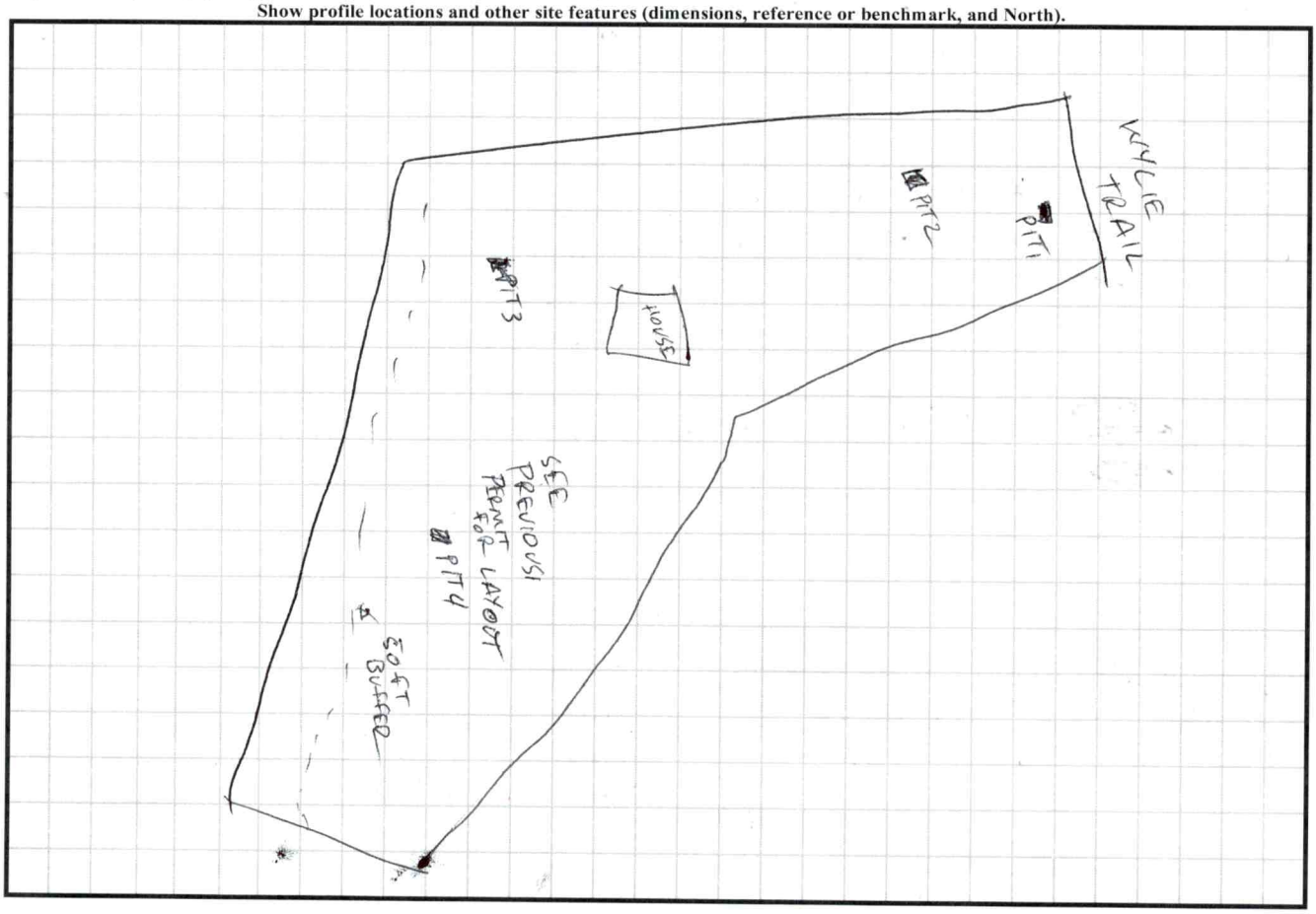
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



PERMIT SNAPSHOT REPORT OSWP-2023-41669 FOR IREDELL COUNTY

Permit Type	Environmental Health OSWP	**Project:**		**App Date:**	11/22/2023
Work Class:	EH Septic Permit	**District:**	Iredell County	**Exp Date:**	NOT AVAILABLE
Status:	In Progress	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	White, Bryant	**Approval Expire Date:**	

Description: Re-Appling for Expired Septic Permit IP/AC 11/28 Sent email. GM 11/29 Adam emailed site ready. Contact info in internal notes. Meet Bob at 2:00 11/30. Bob will have 50 foot buffer marked and let me know. Front right corner pin is under concrete driveway shared with neighbor. GM 12/5 Bob called site will be ready Friday GM 12/8 Site ready GM

Parcel: 4761596575.000 Main	**Address:** 164 Wylie Trl Statesville, NC 28677 Main	**Zone:** RA(Residential Agricultural District)

Property Owner	Applicant/Authorized Agent
LAKESIDE VISTA PARTNERS LLC	Adam Naylor 661 Rebecca Jane Dr Mooresville, NC 28115

Permit Custom Fields

How is your site plan being submitted	Custom Site Plan	Septic Application/Permit Type	Authorization to Construct, Improvement Permit	Does the site contain any jurisdictional wetlands	No
Non-domestic Sewage Generated	No	Other Public Agency	No	All proposed structure dimensions	40 ft by 40 ft 10 in
What are the proposed structures	New Single-Family Residence - Stick Built	Type of New Single-Family Residence	Stick Built	Maximum Number of Bedrooms	4
If other Addition/Structure, please explain		Number of Occupants	4	Foundation Type	Crawl Space Foundation
Residential/Business/Other	Residential	Water Supply	Municipal Water	Desired Septic System Type	Conventional (most common)
Lot Acreage	1.69	Front Setback	35	Back Setback	35
Left Setback	15	Right Setback	15	Is the structure or development in the floodplain	No
Is the property in a local historic district?	No	Is the property located downtown?	No	Additional Unique Setbacks Apply	No
Watershed	NOT IN A WATERSHED				

Attachment File Name	Added On	Added By	Attachment Group	Notes
Signature_Adam_Naylor_11/22/2023.jpg	11/22/2023 10:46	Naylor, Adam		Uploaded via CSS
07062023124543-DOC070623 Septic Sign Off 164 Wylie_v1.pdf	11/22/2023 12:09	Nebel, Barbara	Available Online	Authorize to Act as Agent
CH2 38 Naylor Prelim Plot Plan JG - 07-31-23 (2)_v1.pdf	11/22/2023 15:31	Bailey, Julia	Available Online	Site Plan

Inspection Number	Status	Inspection Type	Request Date	Scheduled Start Date	Scheduled End Date	Actual Start Date	Actual End Date
2023-170872	Passed - Permit	OSWP Septic/Well Preliminary Site Visit	12/08/2023	12/08/2023 0:00	12/08/2023 0:00	12/08/2023 14:09	12/08/2023 14:09

Inspectors: McLeod, Grace (Primary)

Checklist Item	Description	Passed	Comments
General Comments	Checklist item used to track general comments, not specific to any other checklist item	No	

PERMIT SNAPSHOT REPORT (OSWP-2023-41669)

Note	Created By	Date and Time Created
1. 11/28 Sent email. GM 11/29 Adam (phone-731-431-4611) Emailed site ready. Contact person is Bob (704) 361-5437 Meet Bob 11/30 2:00 PM GM	Grace McLeod	11/28/2023 16:47
2. 11/30 Bob will have 50 foot buffer marked and contact me when ready. Right front corner pin under concrete driveway shared w/neighbor. GM 12/ 5 Bob called site will be ready Friday GM	Grace McLeod	12/04/2023 9:41
3. 12/8 Site visit, site ready GM	Grace McLeod	12/08/2023 14:08

Invoice No.	Fee		Fee Amount	Amount Paid
INV-00023643	Iredell Zoning Tech Fee		$2.25	$2.25
	New Gravity System		$500.00	$500.00
	Iredell Zoning Permit Fee		$75.00	$75.00
		Total for Invoice INV-00023643	$577.25	$577.25
		Grand Total for Permit	**$577.25**	**$577.25**

Workflow Step / Action Name	Action Type	Start Date	End Date
Application Completeness Check v.1		11/22/2023 12:27	11/22/2023 12:27
Confirm application complete v.1	Generic Action		11/22/2023 12:27
Fees v.1		11/28/2023 11:33	11/28/2023 11:33
Issue Invoice v.1	Generic Action		11/28/2023 11:33
Fees Paid v.1	Generic Action		11/28/2023 11:33
Zoning Review v.1		11/22/2023 15:32	11/28/2023 11:38
~~Floodplain Admin Overview v.1~~	Task		11/22/2023 15:32
Iredell County Zoning Approval v.1	Task	11/22/2023 15:32	11/28/2023 11:38
Issue Invoice v.1	Generic Action		11/28/2023 11:33
Fees Paid v.1	Generic Action		11/28/2023 11:33
Lot Readiness Verification v.1		12/08/2023 14:09	
OSWP Septic Preliminary Site Visit v.1	Inspection	12/08/2023 14:09	12/08/2023 14:09
OSWP Site Evaluation v.1	Inspection		
Issue Improvement Permit v.1			
Issue Invoice v.1	Generic Action		
Fees Paid v.1	Generic Action		
Issue Permit v.1	Generic Action		
Permit Completion Process v.1			
Authorization to Construct Permit v.1	Create Sub Permit		
Issue authorization to construct v.1	Generic Action		

PRELIMINARY FOR REVIEW ONLY

* NOT AN ACTUAL SURVEY *

THIS PLOT PLAN WAS DRAWN FROM EXISTING PLATS AND/OR DEEDS AND A FULL SURVEY WAS NOT PERFORMED AT THIS TIME. ACREAGES AND DISTANCES ARE SUBJECT TO AN ACTUAL SURVEY. A FULL TITLE SEARCH HAS NOT BEEN PERFORMED.

NAD83-2011

REFERENCE:

BEING ALL OF LOT 28 - NORTH LAKE SUBDIVISION- PHASE 2 - AS RECORDED IN P.B. 54, PG. 71 - IREDELL COUNTY REGISTRY.

PROPERTY IS SUBJECT TO RESTRICTIVE COVENANTS LISTED IN D.B. 1911 - PG. 2214, D.B. 2358 - PG. 6, D.B. 2539 - PG. 2360, D.B. 2716 - PG. 679, D.B. 1946 - PG. 2296, D.B. 2966 - PG. 839, D.B. 2040 - PG. 661, D.B. 2351 - PG. 2481, D.B. 2562 - PG. 2299, D.B. 2624 - PG. 1378, & D.B. 2664 - PG. 1579.

PROPERTY IS SUBJECT TO ANY AND ALL ZONING AND PLANNING ORDINANCES, EASEMENTS, RIGHTS-OF-WAY, AND RESTRICTIONS OF RECORD.

SETBACKS:

PROPERTY CURRENTLY ZONED: RA (IREDELL COUNTY)

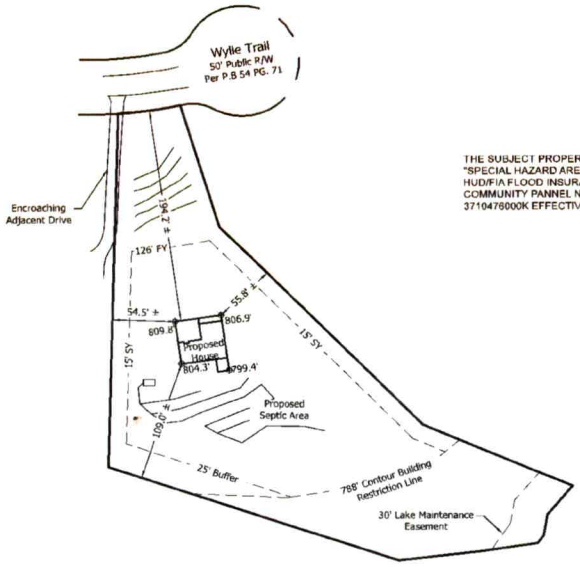
PROPERTY SUBJECT TO A 126' FRONT YARD (FY), 15' SIDE YARD (SY), & 35' REAR YARD (RY) AS RECORDED IN P.B. 54, PG. 71.

PROPERTY IS SUBJECT TO A 10' DRAINAGE & UTILITY AROUND INSIDE PERIMETER OF LOT PER P.B. 54, PG. 71.

PROPERTY IS SUBJECT TO A 30' LAKE MAINTENANCE BUFFER PER P.B. 54, PG. 71.

PROPERTY IS SUBJECT TO A 788' CONTOUR BUILDING RESTRICTION LINE PER P.B. 54, PG. 71.

PROPERTY IS SUBJECT TO A 25' BUFFER ALONG THE BORDER OF LOT 56 PER P.B. 54, PG. 71.



THE SUBJECT PROPERTY IS NOT IN A "SPECIAL HAZARD AREA" AS SHOWN ON HUD/FIA FLOOD INSURANCE RATE MAP COMMUNITY PANNEL NUMBER 3710476000K EFFECTIVE DATE 6/16/2009.

0 80 160 240

LEGEND	
FY	FRONT YARD SETBACK
RY	REAR YARD SETBACK
SY	SIDE YARD SETBACK
R/W	RIGHT OF WAY
P.B.	PLAT BOOK
PG.	PAGE

APPROXIMATE STRUCTURAL/IMPERVIOUS COVERAGE:

APPROXIMATE PROPERTY AREA: 73,494 SF, 1.687 AC
PROPOSED DWELLING AREA: 1,676 SF, 0.038 AC
APPROXIMATE STRUCTURAL COVERAGE: 1,676 SF, 0.038 AC, 2.28%

JORDAN GRANT
ENGINEERING • SURVEYING • PLANNING
JORDAN GRANT & ASSOCIATES, PLLC
2117 SIMONTON RD, SUITE #202
STATESVILLE, NC 28625
MATT.GRANT@JORDAN-GRANT.COM
704-928-7919
FIRM # P-1227

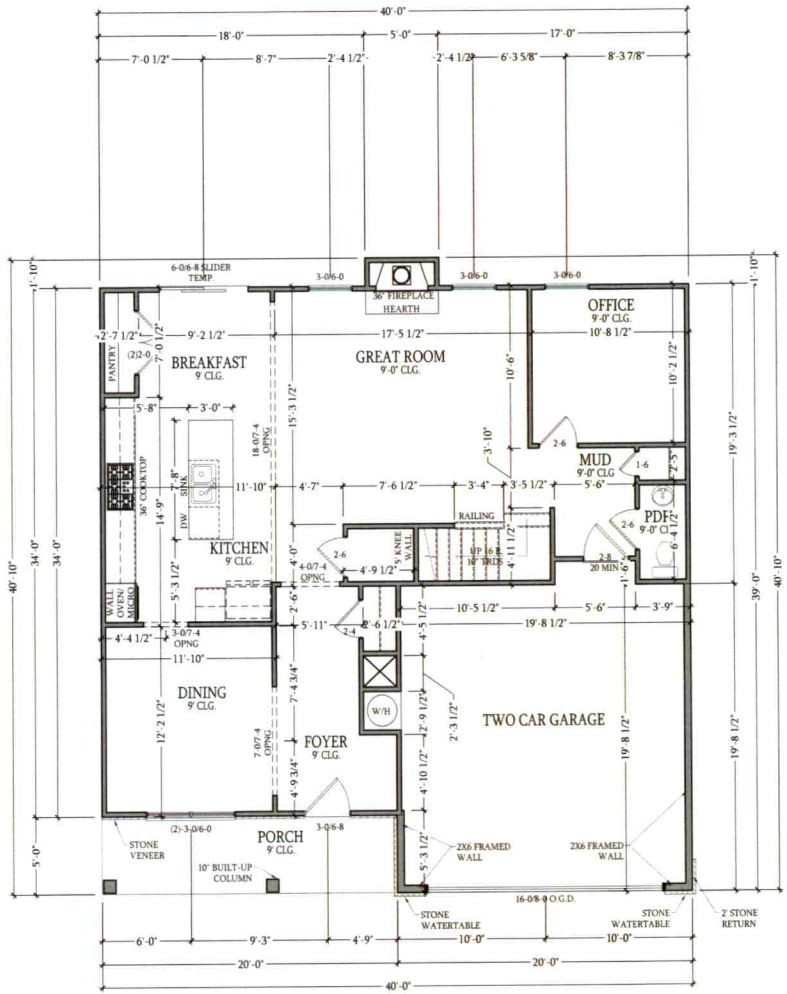
PLOT PLAN FOR:

Naylor

DRAWN BY: DEN	CHECKED BY: JWE	SCALE: 1" = 80'
PIN NO: 4761-59-6575		
DEED REF: 2348-1730		
DATE OF MAP: 07-24-23	SURVEY DATE: 07-20-23	
REVISION:	DRAWING FILE: 20230723-07-21-23	

164 Wylie Trl, Statesville, NC 28677
Chambersburg TWSP - Iredell County - North Carolina

DocuSign Envelope ID: 303E08BF-1242-49FC-BAC7-5F6876017DE6



FIRST FLOOR PLAN

SCALE: 1/4"=1'-0" ON 22x34 AND 1/8"=1'-0" ON 11x17

DS RN DS RN

CORNERSTONE BUILDERS GROUP
DESIGN · BUILD · RENOVATE
PO Box 5322
Cary, NC 27519
P. 919.630.6919 P. 704-201-8489
www.CornerstoneCarolina.com

CARUSO HOMES

Naylor Residence

Lot 26 Wylie Trail
Statesville, NC 28677

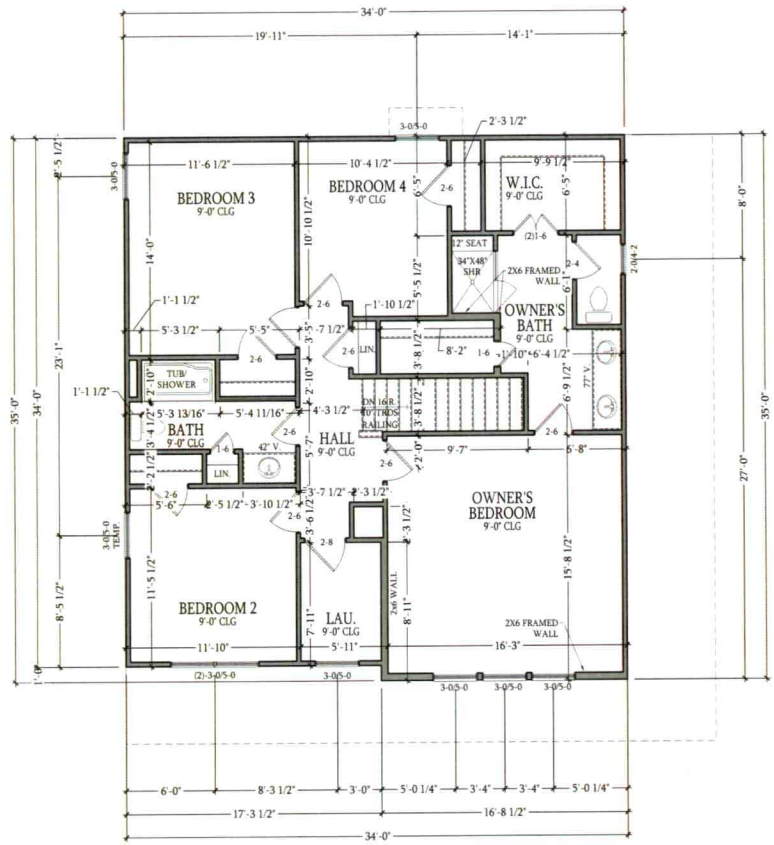
FIRST FLOOR PLAN

REVISIONS:

DATE	DRAWN BY:

DESIGNED BY: CBG
DRAWN BY: CBG
DATE: 09-13-23
JOB #: 23-528
SHEET #:
5.01

DocuSign Envelope ID: 303E08BF-1242-49FC-BAC7-5F6876017DE6



SECOND FLOOR PLAN

SCALE: 1/4"=1'-0" ON 22x34 AND 1/8"=1'-0" ON 11x17

CORNERSTONE BUILDERS GROUP
DESIGN · BUILD · RENOVATE
PO Box 5322
Cleveland, SC 29710
P. 919-630-6919 P. 704-201-8489
www.CornerstoneCarolina.com

CARUSO HOMES

Naylor Residence

Lot 26 Wylie Trail
Statesville, NC 28677

SECOND FLOOR PLAN

REVISIONS:

DATE	DRAWN BY

DESIGNED BY: CBG
DRAWN BY: CBG
DATE: 09-13-23
JOB #: 23-528
SHEET #:

5.30

DS RN

DS AN

KW

IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 238897

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

PIN # 4761-59-6575

APPLICANT/OWNER: Lakeside Vista Partners / CS+SC APPLICANT ADDRESS: 12600 McKinnon Beach Rd Cornelius, NC 28031 PO Box 481235 Charlotte NC 28269

SITE ADDRESS: 164 Wylie Trail Statesville, NC PHONE: 704 202 5991 ALT. PHONE

SITE DIRECTIONS: Ostwalt Amity Rd East from Rt 21 → Lon Bethesda → Ron Northlake → Lon Mountain Island → Lake

SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Northlake SECTION: 2 LOT # 26 LOT AREA: 1.69 acres DESIGN FLOW: 480 L.T.A.R.: 0.25

Septic Tank	1000 (gal)	STB		Date		☒ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI	☒ Residence	No. Bedrooms	4	Water Supply	
Pump Tank	— (gal)	PT	—	Date	—	System Description: 25% Reduction (Serial distribution)	☐ Business	No. Persons	8	☐ Private	
Pump Make	—	Model	—	Serial #	—	Repair System Description: PPBPS (Low Pressure) 50% Reduction	☐ Other	No. Employees		☐ Public	
# Nitrification Fields	1	# Lines	6	Linear Ft:	480	Maintenance Agreement Required: ☐ YES ☒ NO	☐ Slab	☐ Crawl Space		☒ Community	
Trench Width	36"	Trench Bottom Depth(Low side)	24"	Gravel Depth	—	☒ GRAVITY ☐ PRESSURE	☒ Basement w/plumbing			☐ Basement w/o plumbing	

Comments / Conditions: Recommend pumping septic tank every 3-5 years.

INITIAL SITE SKETCH

See attached plans/designs from Carolina Soil + Septic Consulting, PLLC

Dated 9/17/2018 Adrian Pruett LSS #1314

---IMPROVEMENT PERMIT ONLY---

DO NOT ISSUE BUILDING PERMIT!

FLOOR PLAN STILL NEEDED!

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. ☒ 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: 12/20/18 Installed by:

IMPROVEMENT PERMIT by: Date: 11/5/18 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Date: 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.

Carolina Soil & Septic Consulting, PLLC

P.O. Box 1703, Mooresville, NC 28115

Phone: (704) 202-5791 Email: adrianpruett@yahoo.com

NC Licensed Soil Scientist, SC Professional Soil Classifier,
Certified Septic System Operator, Licensed Septic Installer,
Certified Septic Inspector

Proposed Design for a 25% Reduction Septic System
using Gravity distribution for a 4 bedroom single family residence
on Lot 26 of NORTHLAKE Subdivision, in
STATESVILLE, Iredell County, North Carolina.

Contents: **Page**

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

Design Information
- Design Specifications---------- 2
- Layout Specifications---------- 3

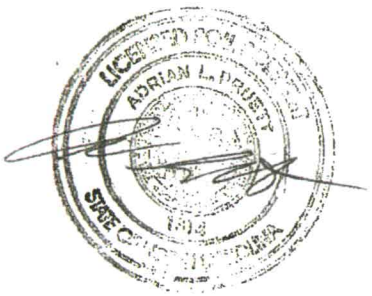
Site Plan/System Plan---------- 4

Dosing Calculations---------- 5

Soil Profile Descriptions---------- 6

September 17, 2018
JOB # 17133
Design By: Ben Aldridge

APPROVED NOV 15 2018



NORTHLAKE LOT 26
FIELD LAYOUT SPECIFICATIONS

LAYOUT FOR 4 BEDROOM RESIDENCE — September 17, 2018

LINE #	FLAG COLOR	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM			NA		
HOUSE CRN		NA	NA		
P. TANK		NA	NA		
1	ORANGE	NA	NA	47	47
2	BLUE	NA	NA	54	54
3	RED	NA	NA	56	56
4	YELLOW	NA	NA	59	59
5	ORANGE	NA	NA	61	61
6	*YELLOW*	*NA*	*NA*	*57*	*57*
7	*ORANGE*	*NA*	*NA*	*103*	*95*
8	*BLUE*	*NA*	*NA*	*99*	*92*
9	*RED*	*NA*	*NA*	*67*	*67*
10	*YELLOW*	*NA*	*NA*	*91*	*91*
11	*ORANGE*	*NA*	*NA*	*88*	*78*
			Total	782	757

	LINE LENGTH	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
System	*480*	*ACCEPT.*	*0.250*	*25% RED.*	*GRAVITY*
Repair	277	*MOD.*	0.300	PPBPS	LOW PRESSURE

Notes: ** TBM Is Not Required.
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags

Comments: **Iredell County has CS&SC's permission to change septic tank location and distribution type**

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OWNER INFORMATION

Owner: LAKESIDE VISTA PARTNERS
Address: 12621 MCGINNIS LN.
HUNTERSVILLE, NC 28078
Phone: 704-504-9000
County: Iredell
Location: NORTHLAKE LOT 26

Source of Wastewater Flow: 4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow: 480
System Flow: NA

25% GRAVITY DESIGN INFORMATION

Drainfield Design Flow (gpd): 480
Loading/Soil Application Rate (gpd/ft.^{2}): 0.250
Depth of Gravel in Trench: NA (25% reduction)
Gravel Size: NA (25% reduction)
Total Lateral Length From Layout: 480
Total Lateral Length Required: 480
Trench Depth: 24 in. Lowside
Trench Width: 36 in.
TOTAL AREA TRENCH BOTTOM: 1440

Trench Spacing on Center: 9 ft.
Repair Trench Spacing on Center: 8 ft.
Repair Trench Depth: 26 in.

Septic Tank Size: 1000 gal.

Estimated Supply Line Length: 22
Supply Line Diameter: 3 in. SCH 40 PVC
Supply Line Volume: 7.92
Dosing Volume: NA
Supply Manifold: SERIAL DISTRIBUTION

Additional Comments: Soil suitability was performed by BEN ALDRIDGE, REHS

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DOSING CALCULATIONS

Location NORTHLAKE

Lot No: 26

No. of Bedrooms	4
Design Flow	480 $^{gal}/_{day}$
LTAR	0.250 $^{gal}/_{ft^2 day}$
25% RED.? (YES OR NO)	YES
Supply Line Length	22 ft.
Supply Line Volume	7.92 gal.
Required Feet of 25% RED. Line	480 ft.
Amount of Line from Layout	480 ft.
Gallons per Minute	NA $^{gal}/_{min}$
Septic Tank Capacity	1000 gal.
Minimum Septic Tank Capacity	1000 gal.
Lateral Line Volume	313.44 gal.