ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 (BB) Mooresville Office (704) 660-3625 PERMIT # 242530

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

PIN # 4761494119 / 4761-39-9503

APPLICANT/OWNER: ADAMS HOMES AEC, LLC APPLICANT ADDRESS: 3401 SAINT VARDELL LANE, SUITE B, CHARLOTTE, N.C. 28217

SITE ADDRESS: 130 NORTHLAKE DRIVE, STATESVILLE, N.C. 28677 PHONE: 704-621-4664 ALT. PHONE 704-558-4527

SITE DIRECTIONS: (E) ON 70, (R) ON BETHESDA, (L) ON NORTHLAKE DRIVE, LOT ON (R), off site

SAP CONTROLLED: ☐ YES ☑ NO

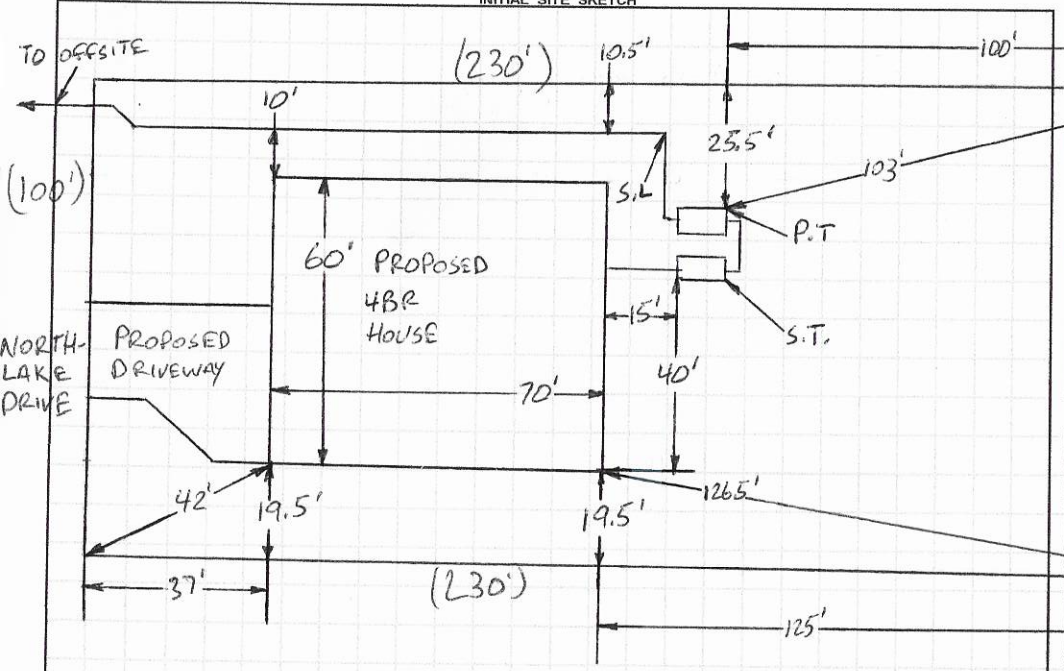
SUBDIVISION: NORTHLAKE SECTION: 1 LOT # 71+71A LOT AREA: 0.53 AC DESIGN FLOW: 480GPD L.T.A.R.: 0.3

Septic Tank	1000	(gal)	STB	760	Date	6-13	☑ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI	☑ Residence	No. Bedrooms	4	Water Supply	
Pump Tank	1000	(gal)	PT	363	Date	6-20	System Description:	25% REDUCTION - PRESSURE MANIFOLD			☐ Business	No. Persons	8	☐ Private	
Pump Make			Model		Serial #		Repair System Description:	LP PPBPS - OFFSITE			☐ Other	No. Employees	—	☑ Public	
# Nitrification Fields	1		# Lines	6	Linear Ft:	402'	Maintenance Agreement Required:	☐ YES	☑ NO		☑ Slab	☐ Crawl Space		☐ Community	
Trench Width	36 IN		Trench Bottom Depth(Low side)	32 IN	Gravel Depth	—		☐ GRAVITY	☑ PRESSURE		☐ Basement w/plumbing		☐ Basement w/o plumbing		

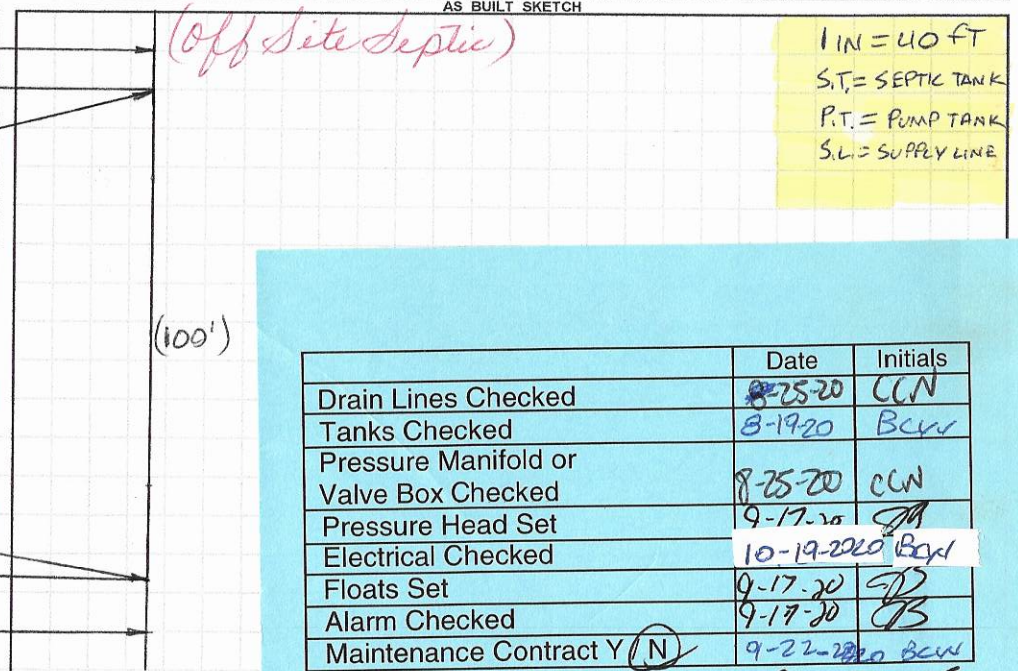
Comments / Conditions: THE PURPOSE OF THIS PERMIT IS TO CHANGE HOUSE BOX SIZE AND RELOCATE TANK, OFFSITE AND PUMPLINE RECORDED ON PAGE 71 BOOK 26 AND PAGE 2664 PAGE 809

ALL PROPERTY LINES MUST BE MARKED AT TIME OF INSPECTION, SITE PLAN MUST REMAIN ATTACHED OR PERMIT IS INVALID

INITIAL SITE SKETCH



AS BUILT SKETCH



1 IN = 40 FT
S.T. = SEPTIC TANK
P.T. = PUMP TANK
S.L. = SUPPLY LINE

	Date	Initials
Drain Lines Checked	8-25-20	CCN
Tanks Checked	8-19-20	BCW
Pressure Manifold or Valve Box Checked	8-25-20	CCN
Pressure Head Set	9-17-20	
Electrical Checked	10-19-2020	BCW
Floats Set	9-17-20	
Alarm Checked	9-17-20	
Maintenance Contract Y (N)	9-22-20	BCW

Checked Supply Inc to offsite 8-27-20

SEE ATTACHED SITE PLAN FROM CS+SC, ADRIAN PRUETT LSS #1314; FOR OFFSITE DESIGN

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**

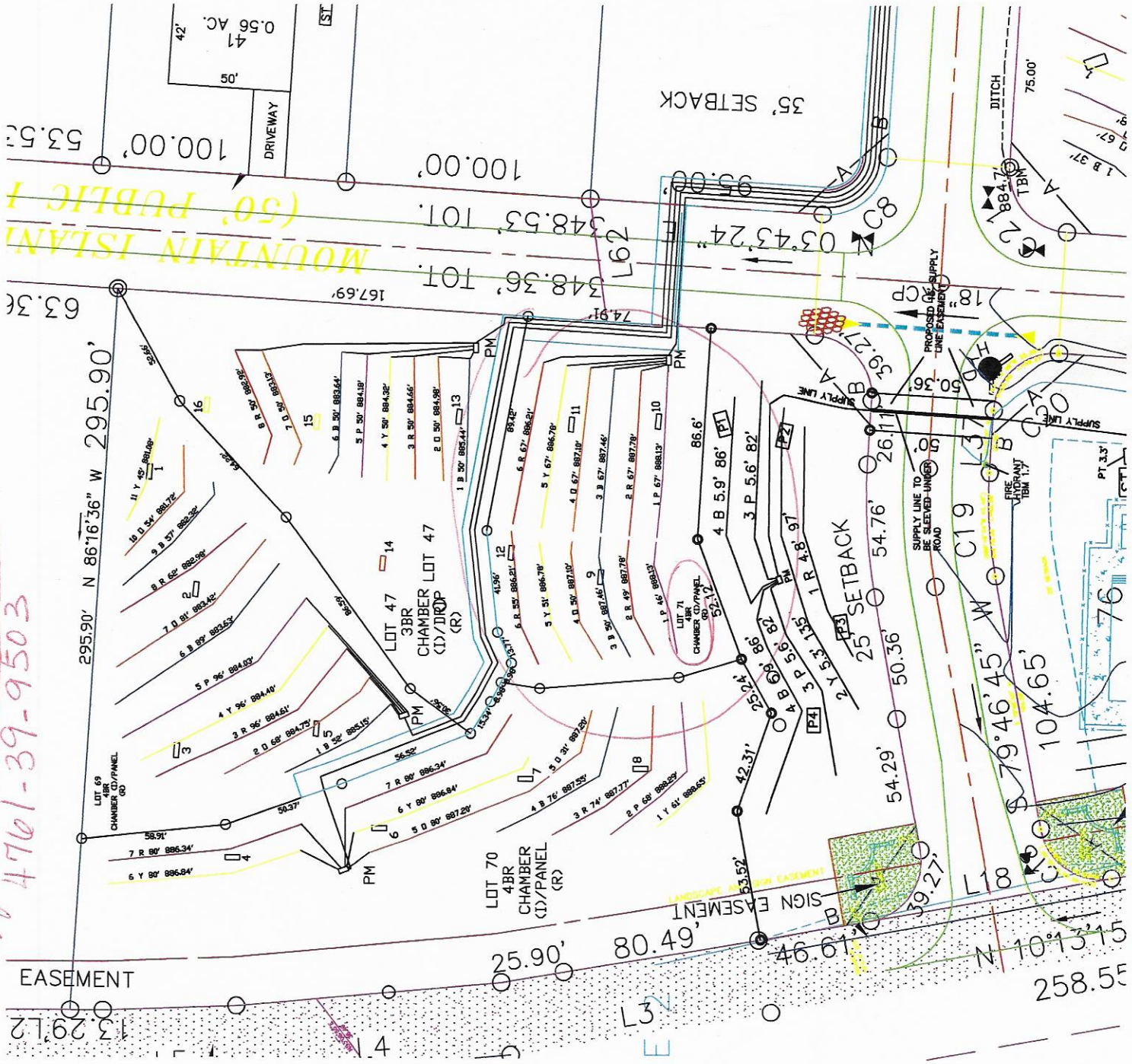
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☑ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☑ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Acceptance of Permit Rec'd Date: 3-27-20 Installed by: Precision Excavation

IMPROVEMENT PERMIT by: Burhart C. White Date: 3-23-2020 OPERATION PERMIT by: Burhart C. White Dat 10-19-2020

AUTHORIZATION TO CONSTRUCT by: Burhart C. White Date: 3-23-2020 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.



Off site Septic Lot
4761-39-9503

Scale 1"=60'

APPROVED DEC 20 2019
KW

https://iredell.connectgis.com/DownloadFile.ashx?i=_ags_mapaf35d6bf1534446c95f2088

Community Devel

File Edit View Favorites Tools Help



The maps prepared for this website are generated from recorded deeds, plats, and other public records. Users of these maps are hereby notified that the information provided herein should be verified. Iredell County assumes no legal responsibilities for any of the information contained on this site. Users are advised that the use of any of this information is at their own risk. All maps on this site were prepared using a 1000â€™ Grid based upon the North Carolina State Plane Coordinate System from the 1983 North American Datum. The delinquent real property tax overlay is updated monthly. The information presented is not intended to be used or relied upon as official notice of tax liens. For additional information regarding delinquent taxes, contact the Iredell County Tax Collector's Office.

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 with Pressure Manifold distribution for a 4 bedroom single family residence on Lot 71, in Northlake Subdivision, Iredell County, North Carolina.

Contents:

	Page
Information for the Installer	1
Design Information	
Design Specifications	2
Layout Specifications	3
System Tapsheet	4
Pressure Manifold Diagram	5
Site Plan/System Plan	6
Calculations	7
Profile Descriptions	8-9

September 17, 2019
Job Number: 17133
Design By: Ben Aldridge, REHS



PRESSURE MANIFOLD SYSTEM
DESIGN SPECIFICATIONS

Owner:	Lakeside Vista Partners
Address:	PO Box 2091 Cornelius, NC 28031
Phone:	704-877-1702
County:	Iredell
Location:	NORTHLAKE LOT 71
Drainfield Design Flow (gpd):	480
Loading/Soil Application Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Total Lateral Length From Layout:	402
Total Lateral Length Required:	400
Trench Depth:	32 in. Low side
Trench Width:	36 in.
Trench Spacing:	9 ft. on center
Trench Bottom Area:	1206
Repair Trench Spacing:	9 ft. on center
Repair Trench Depth:	32 in. Low side
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	696
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	121.10
Dosing Volume:	183.75
Pump Tank Draw Down:	8.8
Supply Manifold Size:	4 in. SCH 80 PVC
Supply Manifold Length:	4 ft. (minimum)
Supply Manifold Volume:	N/A
Recommended Dosing Controls:	Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	NEMA 4X Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	2.37
Elevation Head:	34.00
Total Dynamic Head:	62.99
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 at Pressure Manifold
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by CS&SC

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KW

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

NORTHLAKE LOT 71
FIELD LAYOUT SPECIFICATIONS

LAYOUT FOR 4 BEDROOM HOME

September 17, 2019

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM					884.70		
INSTR. 1							
HOUSE					861.00		
TANK					860.00		
1	***PINK***				***888.13***	***67***	***67***
1	PINK				888.13	46	46
2	***RED***				***887.78***	***67***	***67***
2	RED				887.78	49	49
3	***BLUE***				***887.46***	***67***	***67***
3	BLUE				887.46	50	50
4	***ORANGE***				***887.10***	***67***	***67***
4	ORANGE				887.10	50	50
5	***YELLOW***				***886.78***	***67***	***67***
5	YELLOW				886.78	51	51
6	***RED***				***886.21***	***67***	***67***
6	RED				886.21	55	55
					Total	**703**	**703**

	LINE LENGTH	SYSTEM TYPE	SOIL LTAR GPD/FT[1]	TRENCH SYSTEM	DISTRIBUTION
** System*	*402*	*ACCEPT.*	*0.300*	*25% RED.*	**PRESSURE MANIFOLD**
Repair	301	MOD.	0.300	PPBPS	LOW PRESSURE

Notes: ** TBM located at corner of lot 74 (see site plan)
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags

Comments: Iredell has CS&SC's permission to relocate tanks and distribution devices as needed.

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KW

PRESSURE MANIFOLD TAPSHEET - NORTHLAKE LOT 71

SYSTEM

Line #	Color	Elev	Length	Hole Size	Flow/Tap	gpd	Trench Area	Line LTAR
1	PINK	888.13	67	SCH 80 1/2	5.48	30.63	201	0.15
2	RED	887.78	67	SCH 80 1/2	5.48	30.63	201	0.15
3	BLUE	887.46	67	SCH 80 1/2	5.48	30.63	201	0.15
4	ORANGE	887.10	67	SCH 80 1/2	5.48	30.63	201	0.15
5	YELLOW	886.78	67	SCH 80 1/2	5.48	30.63	201	0.15
6	RED	886.21	67	SCH 80 1/2	5.48	30.63	201	0.15
	total	feet =	402	gal/min =	32.88			
			Des. Flow	480				
			Pump Run=	5.59				
			LTAR	0.300				

Some lines flagged longer in the field, shorten to lengths shown here.

APPROVED DEC 2 0 2019
KW

CALCULATIONS

Location NORTHLAKE

Lot No: 71

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.3	$^{gpd/ft^2}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	696	ft.
Supply Line Volume	121.104	gal.
Required Feet of Line	400	ft.
Amount of Line from Layout	402	ft.
Gallons per Minute	32.88	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Required Pump Tank Capacity	1000	gal.
Lateral Line Volume	262.506	gal.
Dosing Volume	183.75	gal.

Note: Dosing Volume based on 70% of lateral line volume

Tank Draw Down	8.8	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.59	minutes
Elevation Head	34	ft.
Pressure Head	2	ft.
Friction Factor	2.37	ft./100 ft. *(From the interpolater.)*
Friction Head	16.50	ft.
Total Dynamic Head (+20%)	62.99	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

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KW

INFORMATION FOR INSTALLER:

- The permit should be read very carefully prior to submitting bid. 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 when requested.
- All tanks shall be properly back filled and compacted to prevent slumping at a later date.
- The installer is responsible for final grades and returning that grade to original, with exception of added structural features.
- The supply trench shall be compacted to eliminate any 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 has no more than 1/4"fall in 10 feet with no high or low areas within. If high or low areas do exist after trench excavation, high areas should be removed rather than filling in low areas. Do not over excavate trenches! Any fine grading should be completed by hand with a rake and shovel, leaving no loose material.
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral to prevent unwanted lateral water movement.
- Elevations at pin flag locations should be checked by the installer prior to beginning trenches to insure accuracy.
- Pump tank riser should be 6" above grade, control panel should be 12" above grade.
- If septic tank riser is used it should be a minimum of 6" above finished grade or within 6" below finished grade.
- Design precludes use of foundation drains on the residence and assumes back filling for positive drainage unless other wise noted.
- Trench walls should be raked, limed and installed at the depth specified by this design.
- Rake trench walls, lime sidewalls, install trenches 36" wide and have no more than 1/4" fall in 10 feet.
- **System is specified as a 25% Reduction Pressure Manifold installation.**
- **Repair is specified as a LP PPBPS installation.**
- **If grading for slab foundation is utilized do not grade/create greater than 2 ft of elevation difference within 15 ft of any component of the septic or repair. If back filling do not backfill over any initial or repair septic line.**

Sheet 1 OF 1
PROP. ID #: 4761494119
COUNTY: IREDELL

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

OWNER: LAKESIDE VISTA PARTNERS LLC
ADDRESS: PO BOX 2091 CORNELIUS NC 28031
PROPOSED FACILITY: SFR PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: 130 NORTHLAKE DRIVE

APPLICATION DATE:
DATE EVALUATED: 9/13/2019
PROPERTY SIZE: 0.53
PROPERTY RECORDED: YES

WATER SUPPLY: PRIVATE X PUBLIC WELL SPRING OTHER:

EVAL. METHOD: A. BORING X PIT CUT **WASTEWATER TYPE** 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/C OLOR	.1943 SOIL DEPTH	.1956 SAPROLITE CLASS	.1944 RESTR HORIZON	
9	LS 7%	0-14	RC,S,ABK	FI,S,SP,SEXP	N/A	54"	FEW 31-54"	N/A	0.3
		14-31	R C MSBK	FI S SP SEXP					
		31-54	R CL WSBK	FR SS SP SEXP					
10	LS 5%	0-4	RC,S,ABK	FI,S,SP,SEXP	N/A	50"	FEW 35-50"	N/A	0.3
		4-35	RC S/M ABK	FI S SP SEXP					
		35-50	R CL WSBK	FR SS SP SEXP					
11	LS 5%	0-8	RC,S,ABK	FI,S,P,SEXP	N/A	50"	FEW TO COM 27-50"	N/A	0.3
		8-27	R C MSBK	FI S SP SEXP					
		27-50	R CL WSBK	FR SS SP SEXP					
12	LS 7%	0-14	RC,S,ABK	FI,S,SP,SEXP	N/A	57"	N/A	N/A	0.3
		14-27	RC SABK	FI S SP SEXP					
		27-57	RC WSBK	FR SS SP SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
AVAILABLE SPACE (.1945)	PS	PS
SYSTEM TYPE(S)	PM 25% REDUCTION	LP PPBPS
SITE LTAR	0.3	0.3
COMMENTS		

OTHER FACTORS (.1946):	N/A
SITE CLASSIFICATION (.1948):	PS
EVALUATED BY:	BEN ALDRIDGE
OTHER(S) PRESENT	JACOB CONRAD, DAVID BEANE

APPROVED DEC 2 0 2019
KW

Revised

RECEIVED FEB 2 6 2020

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
( ) 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: ( ) 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)

Applicant Name: Cynthia Bladning Address: 3401 Saint Vardell Lane, Suite B, Charlotte, NC Zip: 28217

Applicant Email: submit@maipermits.com Phone: (704) 621-4664 Alt. Phone: (704) 884-1548

Owner Name: Adams Homes AEC, LLC Address: 3401 Saint Vardell Lane, Suite B, Charlotte, NC Zip: 28217

Owner Email: charlottewarranty@adamshomes.com Phone: (704) 558-4527 Alt. Phone: _____

Property Information:

Street Address: 130 Northlake Drive, Statesville, NC 28677

Subdivision Name: Northlakes Section/Phase: _____ Lot Number: 71

Driving Directions: I-77 North, exit 42, right onto NC-115 / US-21 toward Troutman , Turn left onto US-21 N / NC-115 N,
Turn right onto Ostwalt Amity Rd, Turn left onto Bethesda Rd, Turn right onto Northlake Dr

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

CHECK FOUNDATION TYPE
(X) Stem Wall
( ) 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: _____

( ) 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: _____
(X) 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: Cynthia Bladning 2-13-20
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

130 Northlake Drive, Statesville, NC 28677 Lot 71

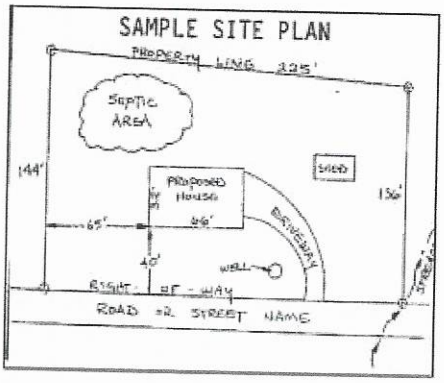
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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:

- (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
- (X) Preferred well location
- (X) Preferred septic system location
- (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

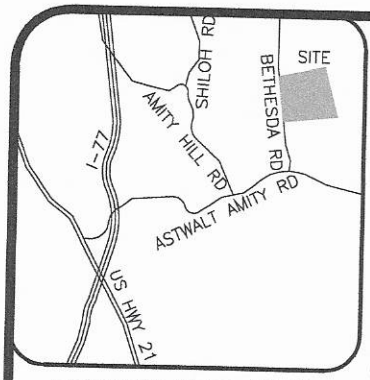
USE THIS SPACE TO DRAW YOUR SITE PLAN

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

Please see attached

Signature: Cynthia Blanding
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

2/10/20
DATE



VICINITY MAP (NTS)

LEGEND

AC=AIR CONDITIONING UNIT
BOC=BACK OF CURB
DW=CONC DRIVEWAY
EB=ELECTRIC BOX
EOP=EDGE OF PAVEMENT
P=PATIO
PO=PORCH
SCO=CLEANOUT
SW=SIDEWALK
TP=TELEPHONE PEDESTAL
WM=WATER METER
IRON PIPE FOUND
IRON PIPE SET
NAIL SET

THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

SHAWN T. RUMBERGER, PLS L-4909 DATE

THIS MAP IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN. THIS MAP IS NOT FOR RECORDATION. NO TITLE REPORT PROVIDED.

NOTE: LOTS SHOWN HEREON ARE SUBJECT TO ANY AND ALL EASEMENTS, RIGHT OF WAYS, AND RESTRICTIONS OF RECORD.

NOTES:

1) DRIVEWAY IMPERVIOUS CALCULATION SHOWN HEREON CALCULATED TO THE FRONT PROPERTY LINE/RIGHT-OF-WAY.

2) LOT SHOWN HEREON IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS AND RESTRICTIONS OF RECORD.

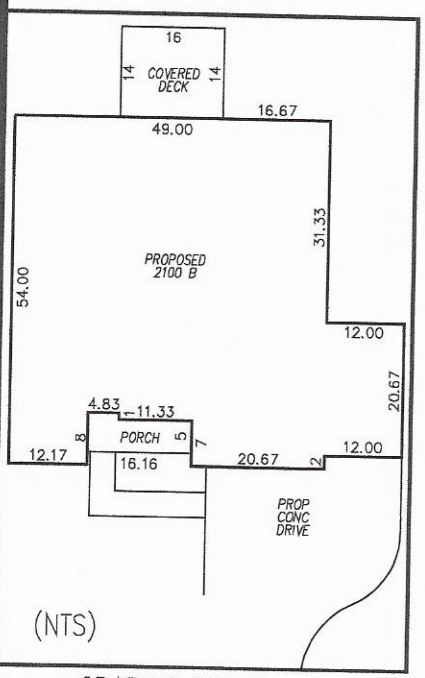
IMPERVIOUS AREA

HOUSE	3,085 SQ.FT.
DRIVE TO R/W	895 SQ.FT.
WALK	96 SQ.FT.
TOTAL	4,076 SQ.FT.

SETBACKS

FRONT	35'
SIDE	15'
REAR	35'
SIDE STREET	25'

NOTE: ALL LOTS SUBJECT TO A 10' UTILITY & DRAINAGE EASEMENT. 10' ON EACH SIDE OF ALL PROPERTY LINES.



(NTS)

GRAPHIC SCALE

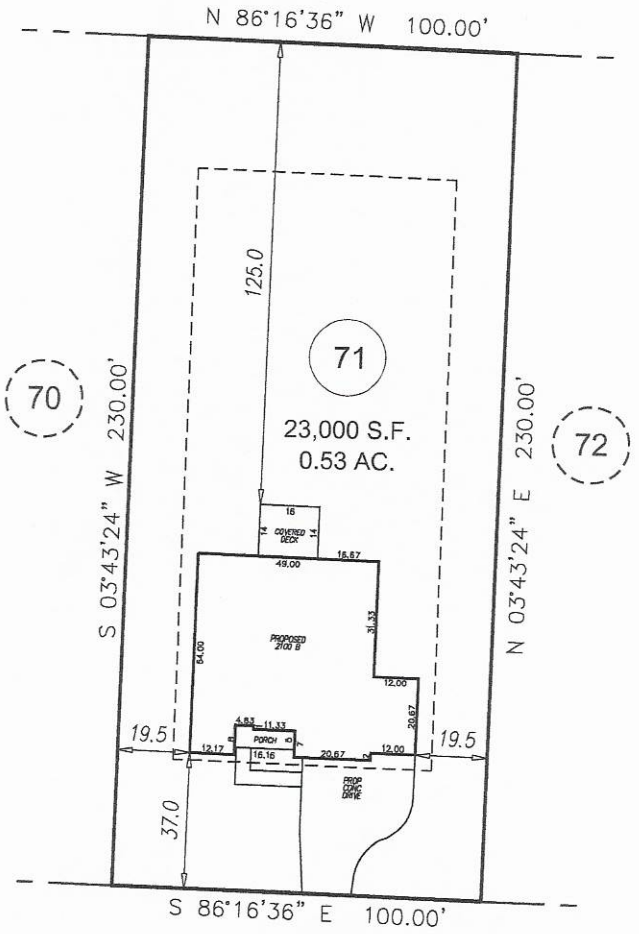
50 0 25

1 inch = 50 ft.

N/F
PLEASANT PAUL DEATON
D.B. 773, PG. 123

N 86°16'36" W 100.00'

PLAT NORTH
PB 53, PG 94



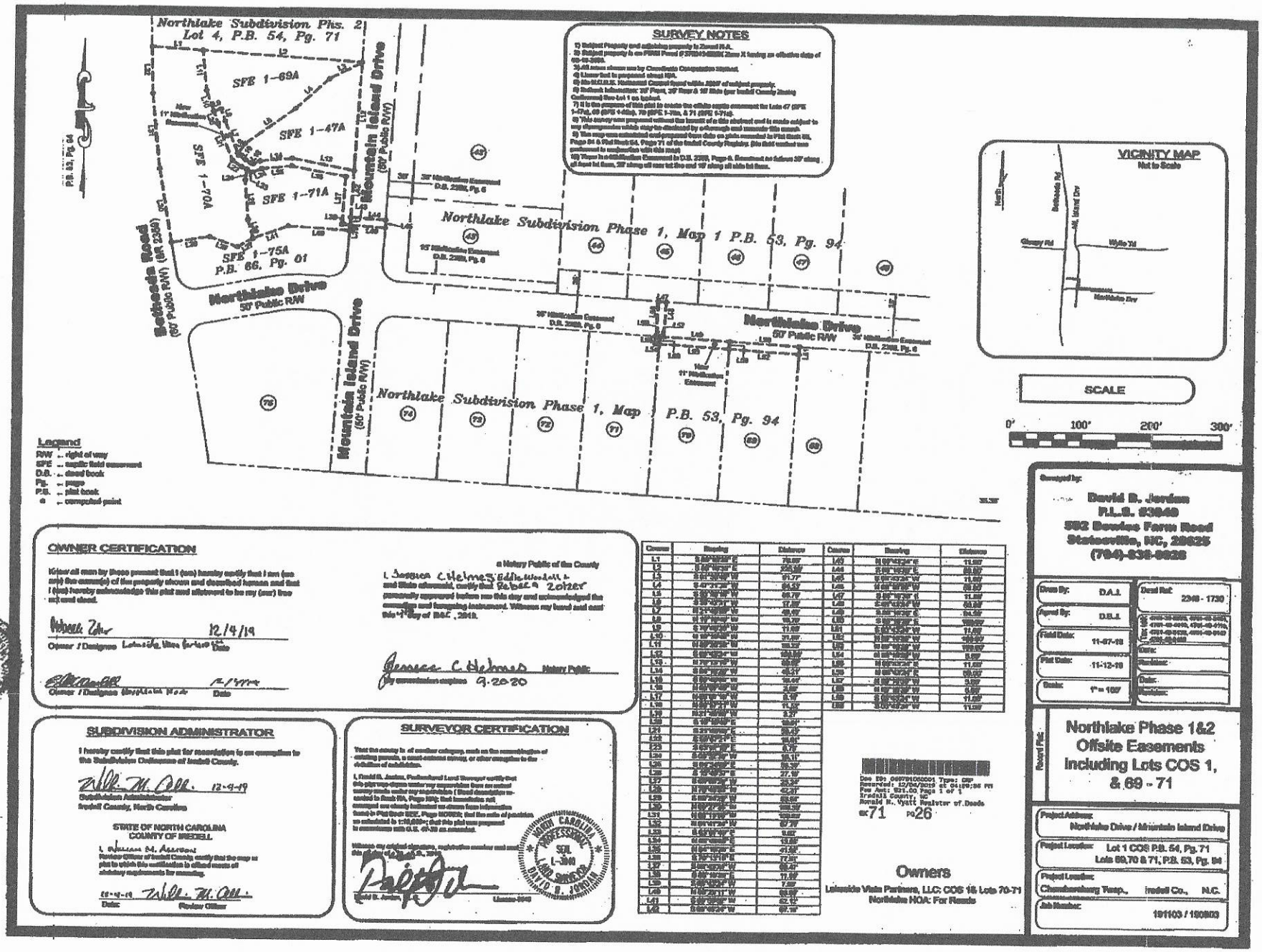
NORTHLAKE DRIVE
50' PUBLIC R/W

PRELIMINARY PLOT PLAN

PROJECT:	18-005 NORTHLAKES
DRAWN BY:	SEER
SCALE:	1"=50'
DATE:	11-21-19

FOR
ADAMS HOMES CHARLOTTE
130 NORTHLAKE DRIVE, STATESVILLE
LOT 71 NORTHLAKE SUBDIVISION
CHAMBERSBURG TWP., IREDELL CO., NC
P.B. 53, PG. 94

ECLS GLOBAL, INC.
U.S. VETERAN-OWNED
19 N McKINLEY ST
COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO#C-4175



OWNER CERTIFICATION

Know all men by these present that I (we) hereby certify that I am (we are) the owner(s) of the property shown and described hereon and that I (we) hereby acknowledge this plat and allotment to be my (our) free act and deed.

Owner / Designee — Date 12/4/19

Owner / Designee — Date

a Notary Public of the County and State aforesaid, certify that ____ personally appeared before me this day and acknowledged the execution and foregoing instrument. Witness my hand and seal this 4th day of DEC, 2019.

Jessica C. Helmes — Notary Public

My commission expires 9.20.20

SUBDIVISION ADMINISTRATOR

I hereby certify that this plat for recordation is an exception to the Subdivision Ordinance of Iredell County.

12-9-19
Subdivision Administrator
Iredell County, North Carolina

STATE OF NORTH CAROLINA
COUNTY OF IREDELL

I, William M. Akerson, Review Officer of Iredell County, certify that the map or plat to which this certification is affixed meets all statutory requirements for recording.

12-9-19 — Date — Review Officer

SURVEYOR CERTIFICATION

NORTH CAROLINA PROFESSIONAL SEAL L-3940 LAND SURVEYOR DAVID B. JORDAN

David B. Jordan, Professional Land Surveyor certify that this plat was drawn under my supervision from an actual survey made under my supervision (Deed description recorded in Book 2388, Page 1730); that boundaries not surveyed are clearly indicated as drawn from information found in Plat Book 053, Page 094/095; that the ratio of precision as calculated is 1:10,000+; that this plat was prepared in accordance with G.S. 47-30 as amended.

Witness my original signature, registration number and seal this 4th day of DEC, 2019.

David B. Jordan — L-3940

Course	Bearing	Distance
L1	S 89°59'59" E	78.89'
L2	S 89°59'59" E	306.89'
L3	S 01°39'59" W	91.77'
L4	S 47°21'29" W	84.53'
L5	S 89°59'59" W	68.77'
L6	S 89°59'59" W	57.89'
L7	S 01°39'59" W	49.49'
L8	N 11°19'59" W	16.39'
L9	S 78°40'29" W	71.89'
L10	S 89°59'59" W	31.89'
L11	S 89°59'59" W	100.89'
L12	S 89°59'59" W	100.89'
L13	N 89°59'59" E	89.89'
L14	S 89°59'59" W	45.01'
L15	S 89°59'59" W	184.89'
L16	S 89°59'59" W	3.89'
L17	S 89°59'59" W	8.19'
L18	S 89°59'59" W	71.89'
L19	S 89°59'59" W	8.19'
L20	S 89°59'59" W	89.89'
L21	S 01°39'59" E	89.19'
L22	S 89°59'59" E	89.89'
L23	S 89°59'59" E	8.79'
L24	S 89°59'59" E	89.19'
L25	S 89°59'59" E	89.39'
L26	S 89°59'59" E	27.19'
L27	S 89°59'59" W	89.39'
L28	S 11°19'59" W	42.89'
L29	S 89°59'59" W	89.89'
L30	S 89°59'59" W	100.89'
L31	S 89°59'59" W	100.89'
L32	S 89°59'59" W	97.79'
L33	S 89°59'59" E	9.89'
L34	S 89°59'59" E	19.89'
L35	S 89°59'59" E	41.89'
L36	S 78°40'29" E	72.89'
L37	S 89°59'59" W	89.89'
L38	S 89°59'59" W	11.89'
L39	S 89°59'59" W	7.89'
L40	S 89°59'59" W	89.89'
L41	S 89°59'59" W	62.19'
L42	S 89°59'59" W	89.19'

Course	Bearing	Distance
L43	N 89°59'59" E	11.89'
L44	S 89°59'59" E	89.89'
L45	S 89°59'59" W	11.89'
L46	S 89°59'59" W	89.89'
L47	S 89°59'59" E	11.89'
L48	S 89°59'59" E	89.89'
L49	S 89°59'59" E	184.89'
L50	S 89°59'59" E	100.89'
L51	S 89°59'59" W	11.89'
L52	S 89°59'59" W	100.89'
L53	S 89°59'59" W	100.89'
L54	S 89°59'59" W	3.89'
L55	S 89°59'59" E	11.89'
L56	S 89°59'59" E	89.89'
L57	S 89°59'59" W	3.89'
L58	S 89°59'59" W	3.89'
L59	S 89°59'59" W	11.89'
L60	S 89°59'59" W	11.89'

Doc ID: 009781050001 Type: CRP
Recorded: 12/04/2019 at 04:09:56 PM
Fee Amt: $21.00 Page 1 of 1
Iredell County, NC
Ronald M. Mott Register of Deeds
BK 71 PG 26

Owners

Lakeside Vista Partners, LLC: COS 1& Lots 70-71
Northlake HOA: For Roads

Surveyed by:
David B. Jordan
P.L.S. 23940
592 Bowles Farm Road
Statesville, NC, 28625
(704)-838-0828

Drawn By:	D.A.J.
Signed By:	D.B.J.
Field Date:	11-07-19
Plat Date:	11-12-19
Scale:	1" = 100'
Deed Ref:	2388 - 1730
Tax Map No.	4701-49-0499, 4701-49-4199, 4701-49-5103, 4701-49-5167, 4701-49-5488
Date:	
Revision:	
Date:	
Revision:	

Northlake Phase 1&2 Offsite Easements Including Lots COS 1, & 69 - 71

Project Address:	Northlake Drive / Mountain Island Drive
Project Location:	Lot 1 COS P.B. 54, Pg. 71 Lots 69,70 & 71, P.B. 53, Pg. 94
Project Location:	Chambersburg Twsp., Iredell Co., N.C.
Job Number:	191103 / 190803

ICHD–ENVIRONMENTAL HEALTH DIVISION

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

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

PERMIT # AP-242530

PIN # 4761494119

APPLICANT/OWNER: Lakeside Vista Partners

APPLICANT ADDRESS: PO Box 2091 Cornelius, NC

SITE ADDRESS: 130 Northlake Dr. Statesville, NC

PHONE: 704-798-0337 ALT. PHONE —

SITE DIRECTIONS: NC 801 N → L on Triple # → L on Ostwalt Amity → R on Bethesda → R on Northlake → lot on R

SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: Northlake SECTION: 1 LOT # 71 LOT AREA: .53 ac

DESIGN FLOW: 480gpd L.T.A.R.: .3

Septic Tank	1000 (gal)	STB	Date		
Pump Tank	1000 (gal)	PT	Date		
Pump Make		Model	Serial #		
# Nitrification Fields	1	# Lines	6	Linear Ft	402'
Trench Width	36"	Trench Bottom Depth (Low side)	32"/36" highside	Gravel Depth	—

☑ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI

System Description: PM 25% reduction (offsite)

Repair System Description: LP PPBPS

Maintenance Agreement Required: ☐ YES ☑ NO ☐ GRAVITY ☑ PRESSURE

☑ Residence ☐ Business ☐ Other ☐ Slab ☐ Basement w/plumbing

No. Bedrooms 4 No. Persons 8 No. Employees — ☑ Crawl Space

Water Supply: ☐ Private ☐ Public ☑ Community

☐ Basement w/o plumbing

Comments / Conditions: *offsite septic and supply line easements must be recorded prior to issuing AC. *A site visit by ICHD will be required to verify new property lines are marked at offsite septic.

INITIAL SITE SKETCH

See attached site plan by CS + SC, PLLC

Nitrification Easement

Deed Book 71/Page 25 + Book 2664 Page 809

AS BUILT SKETCH

Revised

+ offsite septic/supply line easement recorded

---IMPROVEMENT PERMIT ONLY---

DO NOT ISSUE BUILDING PERMIT!

FLOOR PLAN STILL NEEDED

Only give client attached photo copy

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: [signature] Date: 12/27/19

IMPROVEMENT PERMIT by: Kenyla Watson Date: 12-20-19

AUTHORIZATION TO CONSTRUCT by: Date:

Installed by:

OPERATION PERMIT 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 inpsector to confirm your inspection time.

Type: CONSOLIDATED REAL PROPERTY
Recorded: 12/11/2019 3:21:30 PM
Fee Amt: $26.00 Page 1 of 5
Revenue Tax: $0.00
Iredell County, NC
Ronald N. Wyatt Register of Deeds

BK 2664 PG 809 - 813

This instrument was prepared by: J Stanley, PO Box 2091, Cornelius, NC 28031

NORTH CAROLINA)
)
COUNTY OF IREDELL)

NITRIFICATION EASEMENT

THIS EASEMENT, made and entered into this 11th day of December, 2019, by and between **LAKESIDE VISTA PARTNERS, LLC**, a North Carolina Limited Liability Company, hereinafter referred to as the "**Lakeside**", and **NORTHLAKE PROPERTY OWNERS ASSOCIATION, INC**, a North Carolina Limited Liability Company, hereinafter referred to as the "**Association**", **NOBLE RESORTS, INC.**, a North Carolina corporation, hereinafter referred to as the "**Noble**" and **Adams Homes AEC, L.L.C.**, a South Carolina Limited Liability Company, hereinafter referred to as the "**Adams**";

WITNESSETH:

THAT WHEREAS, Lakeside and Association own certain properties to which they intend to create a nitrification easement as herein described in various portions of their respective properties to grant to Noble and Adams and their respective successors and assigns to service the septic systems that are located offsite; and

WHEREAS, Lakeside owns Lot 1 COS as shown on that certain plat of Northlake Subdivision, Phase 2, as shown on the map recorded in Map Book 54, Page 71 by deed recorded in Book 2348, Page 1730, Iredell County Registry, and Lakeside owns Lots 69, 70 and 71 as shown on that certain plat of Northlake Subdivision, Phase 1, Map 1, as shown on the map recorded in Map Book 53, Page 94 by deed recorded in Book 2348, Page 1730, Iredell County Registry (hereinafter together "Lakeside Property"); and

WHEREAS, Association owns those roads entitled "Northlake Drive (50' Public R/W)" and "Mountain Island Drive (50' Public R/W)" as shown on that certain plat of Northlake Subdivision, Phase 1, Map 1, as shown on the map recorded in Map Book 53, Page 94 by deed recorded in Book 2432, Page 1472, Iredell County Registry (hereinafter together "Association Property"); and

WHEREAS, Lakeside recorded an easement for the benefit of both Lakeside and Association. This was recorded in Article X, EASEMENTS, Sections 1, Utilities of that certain document recorded in Book 2358, Page 6 of the Iredell County Registry. These easements included lots 43, 44, 45, 46 that as shown on that certain plat of Northlake Subdivision, Phase 1, Map 1, as shown on the map recorded in Map Book 53, Page 94. Said easement includes the front 35 feet and side 15 feet of all Lots (hereinafter "Utility Easement"); and

Page Count 5 ROTC
NS PO SI

WHEREAS, Noble owns lot 75 COS as shown on that certain plat of Northlake Subdivision, Phase 1, Map 1, as shown on the map recorded in Map Book 53, Page 94 by deed recorded in Book 2432, Page 1464, Iredell County Registry (hereinafter "Noble Property"); and

WHEREAS, Noble previously was granted a Nitrification Easement in Book 2432, Page 1132, that conveyed a perpetual easement across Northlake Drive, however the Association did not join in executing the easement, so therefore the Association intends to grant the easement across Northlake Drive; and

WHEREAS, Lakeside and Association (hereinafter "Grantors") desire to grant a Nitrification Easement to both Lakeside and Adams (hereinafter "Grantees") to service Lots 47, 69, 70 and 71; and

NOW, THEREFORE, in consideration of TEN AND 00/100 ($10.00) DOLLARS to it in hand paid, Grantors do hereby convey unto Grantees, its successors and assigns, a perpetual easement over the property hereinafter described subject to the provisions hereinafter set forth for the purpose of installing a nitrification field or other drainage system or absorption systems for sewage disposal, together with the right of way and easement at any time for Grantees, its heirs, successors and assigns, to enter on said tract with equipment and/or personnel to perform necessary installation, removal, maintenance, replacement or repairs to said system. Persons or firms exercising the easement herein contained shall proceed expeditiously with completion of any maintenance or installation to avoid unnecessary inconvenience to Grantors, and the persons or firms exercising said easement shall repair all damage caused to the said property immediately. It is further understood that all nitrification fields or other installation placed on said property under this easement will be placed underground and in such a manner that the installation will not interfere with the operations of the Grantors. The property over which this easement is granted is more particularly described as follows:

1. Association grants to Noble a perpetual easement being all of that certain "NEW 15' SSE" on, over, under, across Northlake Drive for ingress and egress for the installation of necessary utilities, lines and piping as shown on that certain plat entitled "NORTHLAKE SUBDIVISION, PHASE 2 – SFE 1-75A" as shown on a map recorded in Plat Book 66, at Page 101, in the Office of the Register of Deeds of Iredell County, North Carolina.

2. Association grants to Grantees a perpetual easement being all of those certain 11 feet in width on, over, under, across Northlake Drive and Mountain Island Drive for ingress and egress for the installation of necessary utilities, lines and piping as shown on that certain plat entitled "NORTHLAKE PHASE 1&2 Offsite Easements Including Lots COS 1, & 69 – 71", as shown on a map recorded in Plat Book 71, at Page 26, in the Office of the Register of Deeds of Iredell County, North Carolina.

3. Lakeside grants to Grantees the following:
   (a) A perpetual easement being all of that certain "New 11' Nitrification Easement" as labeled on lots 69, 70 and 71 on that certain plat entitled "NORTHLAKE PHASE 1&2 Offsite Easements Including Lots COS 1, & 69 – 71", as shown on a map recorded in Plat Book 71, at Page 26, in the Office of the Register of Deeds of Iredell County, North Carolina; and
   (b) A perpetual easement being all of that certain "New 11' Nitrification Easement" as labeled on Lot 1 COS on that certain plat entitled "NORTHLAKE PHASE 1&2 Offsite Easements Including Lots COS 1, & 69 – 71", as shown on a map recorded in Plat Book 71, at Page 26, in the Office of the Register of Deeds of Iredell County, North Carolina; and
   (c) A perpetual easement over all of that certain tract of land designated as "SFE 1-47A", "SFE 1-69A", "SFE 1-70A" and "SFE 1-71A" on that certain plat entitled "NORTHLAKE PHASE 1&2 Offsite Easements Including Lots COS 1, & 69 – 71", as shown on a map recorded in Plat Book 71, at Page 26, in the Office of the Register of Deeds of Iredell County, North Carolina. It is the intent of this easement that "SFE 1-47A" shall be the offsite for lot 47; "SFE 1-69A" shall be the offsite for lot 69; "SFE 1-70A" shall be the offsite for lot 70; and "SFE 1-71A" shall be the offsite for lot 71.

4. Grantors grant to Grantees a perpetual easement over an 11-foot-wide portion of that previously recorded Utility Easement over and upon lots 43, 44, 45 and 46 as follows:

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE

TO HAVE AND TO HOLD said right and easement to it, the said Grantees, its successors in title, heirs and assigns, it being agreed that the right and easement hereby granted is appurtenant to and runs with the land now owned by Grantee and hereinafter referred to.

IN WITNESS WHEREOF, the said Grantors has hereunto set its hand and seal, the day and year first above written.

LAKESIDE VISTA PARTNERS, LLC ("Lakeside")

BY: _____ (SEAL)
NAME: _____
TITLE: _____

NORTHLAKE PROPERTY OWNERS ASSOCIATION, INC. ("Association")

BY: _____ (SEAL)
NAME: _____
TITLE: _____

[This Space Left Intentionally Blank]

North Carolina

County of Mecklenburg

I certify that the following person(s) personally appeared before me this day, and; each acknowledging to me that he or she voluntarily signed the foregoing document for the purpose stated therein and in the capacity indicated above:
Ed Woodall & Rebecca Zolm

Witness my hand and official seal, this the 11th day of December, 2019.

(Official Seal)

HARRY E LONDON NOTARY PUBLIC MECKLENBURG COUNTY, NC

Harry E. London
Official Signature of Notary

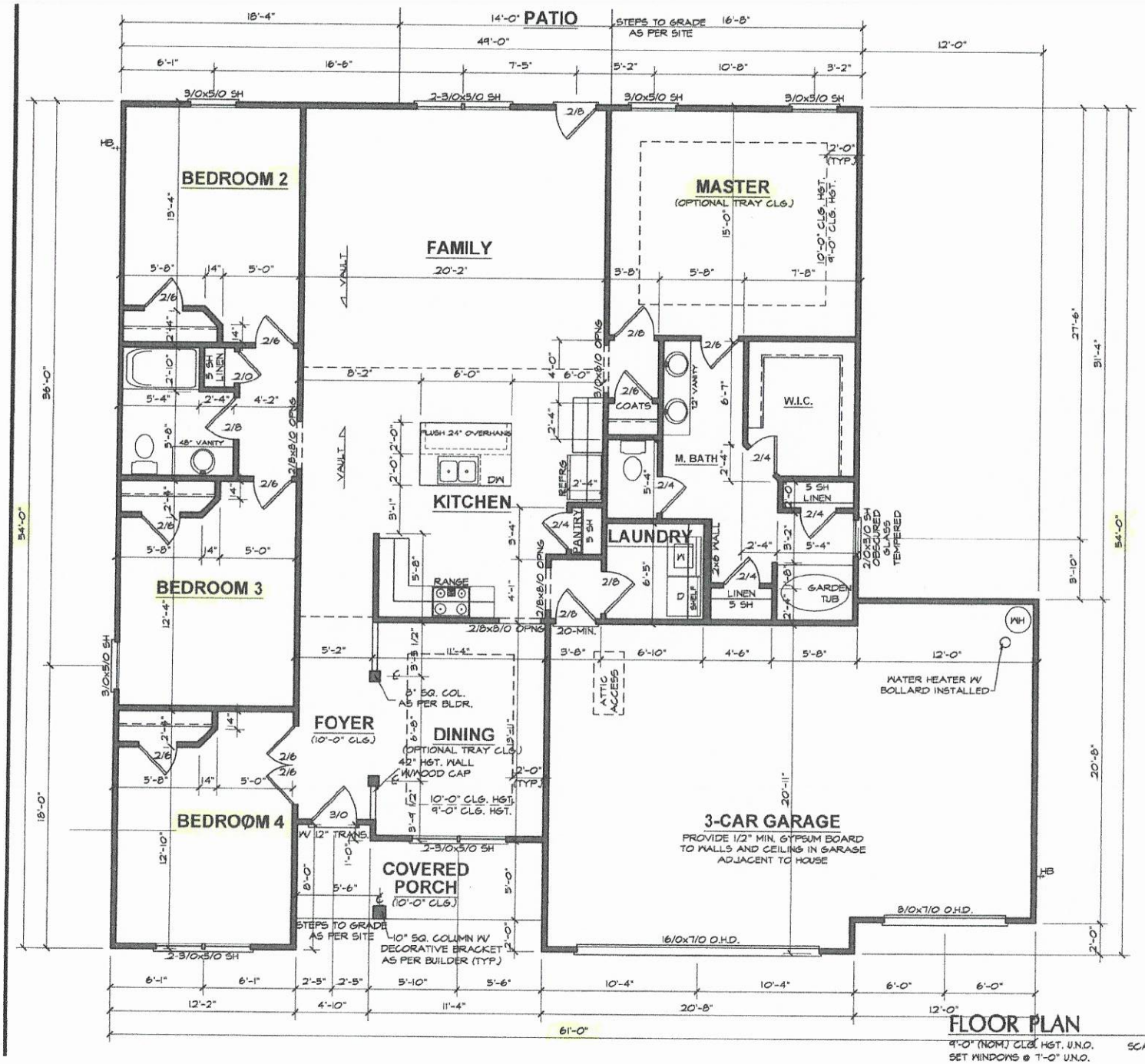
Harry E London Notary Public
Notary's printed or type name

My commission expires: 03-05-2020

EXHIBIT "A"
LEGAL DESCRIPTION

TRACT ONE:
Being that certain portion of land lying in Chambersburg Township, Iredell County, North Carolina, being more particularly described as follows:

Beginning at a point the common corner of Lots 46 & 47 of Northlake Subdivision Phase 1 Map 1 P.B. 53, Pg. 94 on the northerly R/W of Northlake Drive; thence with the northerly R/W of said Northlake Drive and the southerly line of Lots 43-46, 5 calls: 1) N 86°16'36" W a distance of 100.01'; 2) N 86°16'36" W a distance of 100.01'; 3) N 86°16'36" W a distance of 100.01'; 4) N 86°16'36" W a distance of 224.62'; 5) with a curve turning to the right with an arc length of 39.28', with a radius of 25.00', with a chord bearing of N 41°16'36" W, with a chord length of 35.36' to a point on the easterly R/W line of Mountain Island Drive and being on the westerly line of Lot 43 of said P.B. 53, Pg. 94; thence with said Mountain Island Drive 2 calls: 1) N 03°43'24" E a distance of 50.25'; 2) N 03°43'24" E a distance of 11.00' to a point on the westerly line of Lot 43; thence traversing through Lots 43-46 to the westerly line of Lot 47, 7 calls: 1) S 86°16'36" E a distance of 11.00'; 2) S 03°43'24" W a distance of 61.25'; 3) with a curve turning to the left with an arc length of 22.00', with a radius of 14.00', with a chord bearing of S 41°16'36" E, with a chord length of 19.80'; 4) S 86°16'36" E a distance of 224.44'; 5) S 86°16'36" E a distance of 100.01'; 6) S 86°16'36" E a distance of 100.01'; 7) S 86°16'36" E a distance of 100.01' to a point on the westerly line of Lot 47; thence S 02°46'30" W a distance of 11.00', to the point of beginning, being an 11' portion of that 35' and 15' Nitrification Easement recorded in D.B. 2358, Pg. 6 according to a survey entitled "Northlake Phase 1&2 Offsite Easements Including Lots COS 1, 43-46, & 69-71" by David B. Jordan N.C. P.L.S. # 3940 signed December 4, 2019.



FLOOR PLAN

9'-0" (NOM.) CLG. HGT. U.N.O.
SET WINDOWS @ 7'-0" U.N.O.

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

Acknowledgement of Plans Submittal

Cynthia Blanding Date 3/26/20

Bradford White Date 3-23-2020

RECEIVED FEB 26 2020

SIGN HERE

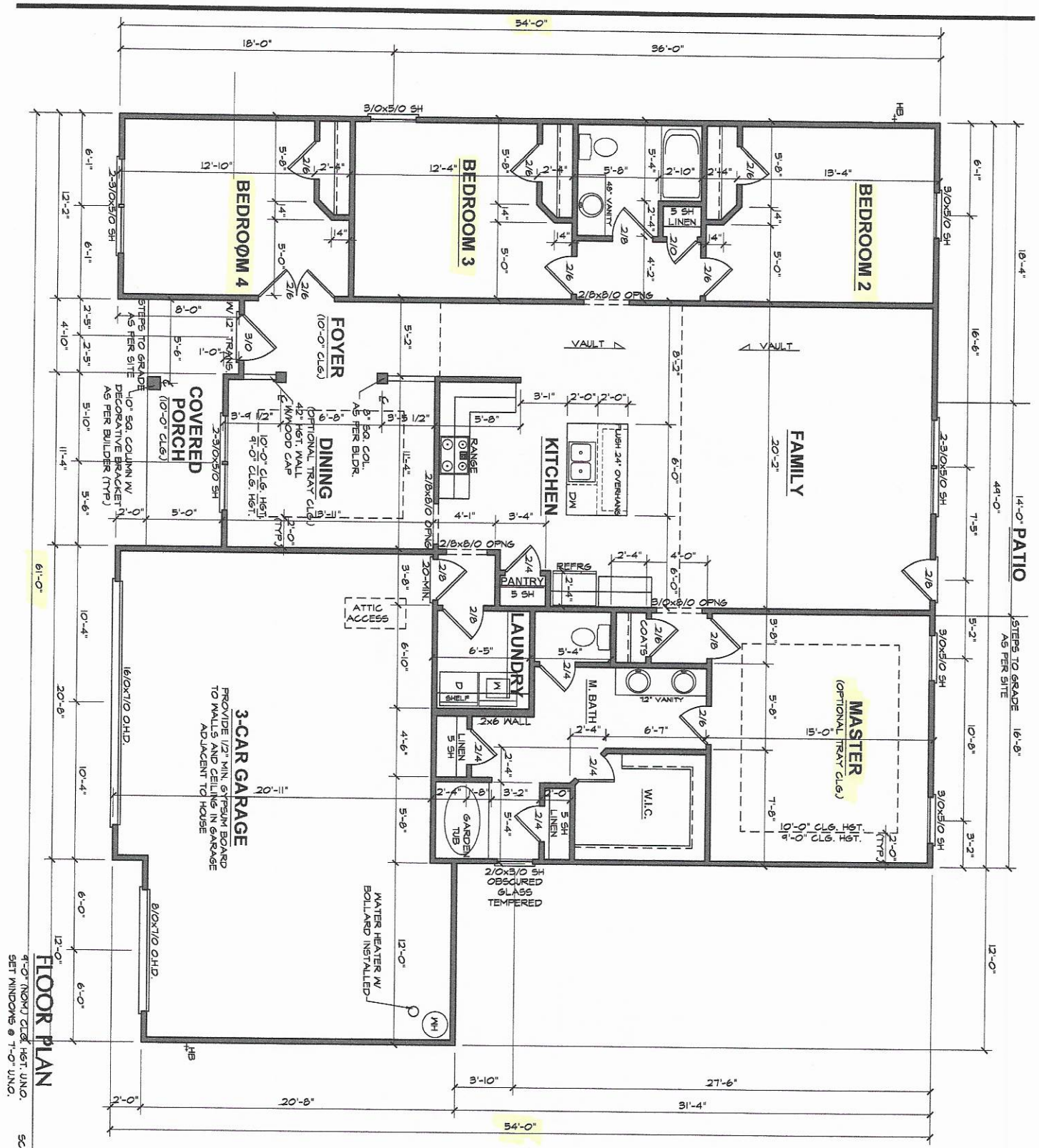
(R) 3-C

NRO

DAMS HOMES AEO, LLC

DATE DRAWN
12-9-2019
PROJECT
4160
REVISIONS

SHEET
3



FLOOR PLAN

4'-0" (NOM.) CLG. HGT. U.N.O.
SET WINDOWS @ 7'-0" U.N.O.

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

Acknowledgment Of Plans Submittal ONLY!

Signature: _____ Date 3-23-2020

Date

RECEIVED FEB 2 6 2020

2100 "B" FE (R) 3-CAR NR071

DAMS HOMES AEC, LLC

DATE DRAWN	12-3-2019
PROJECT	4160
REVISIONS	

SHEET 3

IREDELL COUNTY

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

APPLICATION NUMBER
242530
Issue Date: 02/27/2019

ZONING PERMIT
Open Space

Parcel Number	Street Address	Jurisdiction
4761494119.000	130 NORTHLAKE DRIVE, STATESVILLE, NC	IREDELL COUNTY

Owner Information	Applicant Information
Owner: LAKESIDE VISTA PARTNERS LLC	Applicant: CAROLINA SOIL SEPTIC C
Address: 12621 MCGINNIS LANE	Address: 162 WEST B ST
STATESVILLE, NC 28078	KANNAPOLIS, NC 28081
Phone:	Phone: 704-202-5791

Use Requested	Zone Code
SFD	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
.530	35.00	35.00	15.00	15.00	NOT	X

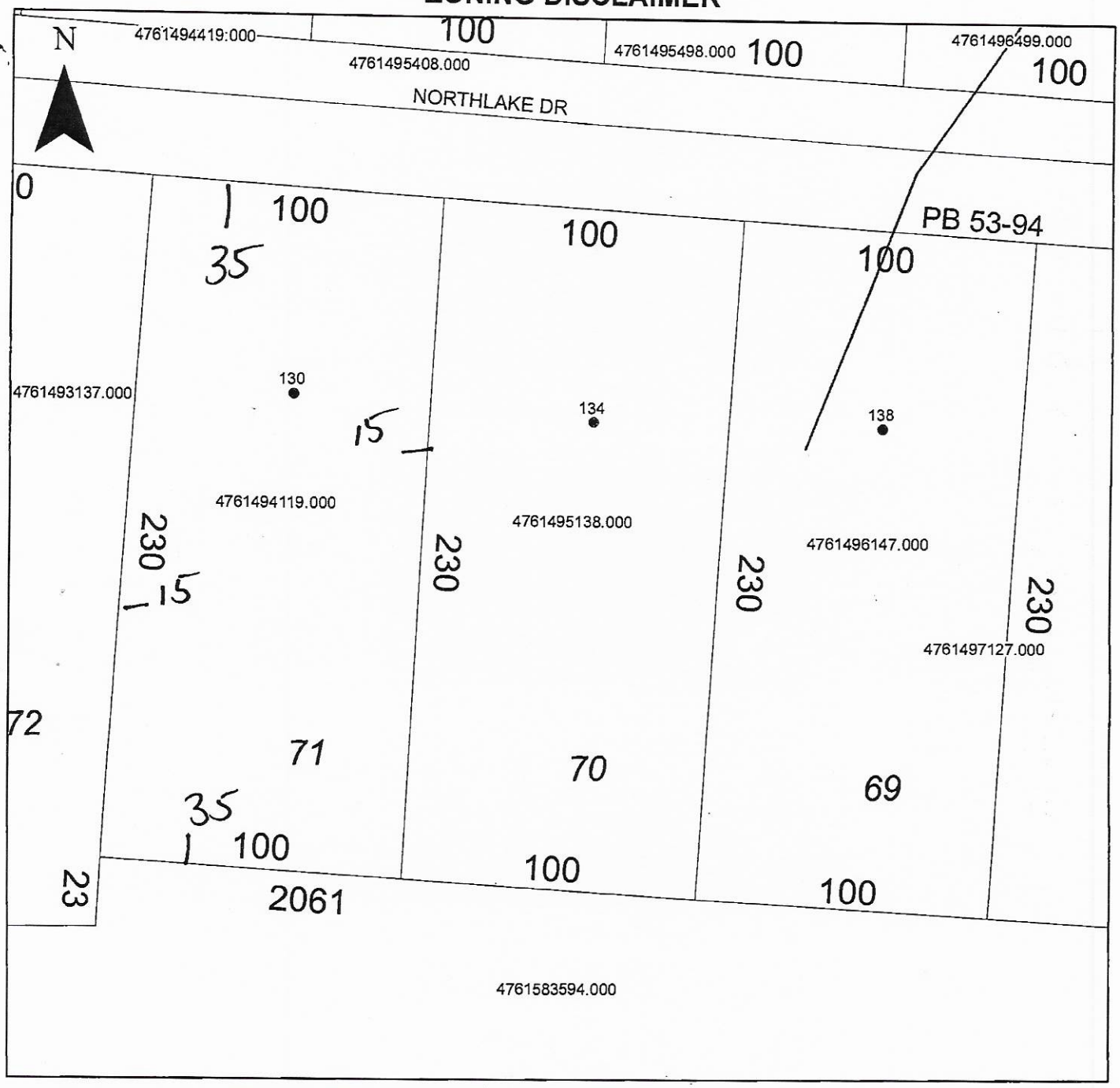
Remarks:

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	168982	TOTAL FEES:	$ 77.25

ZONING DISCLAIMER



Property Address 130 Northlake 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