ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # 20826

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

PIN # 4648424033

APPLICANT/OWNER: JBL Custom Homes Inc. APPLICANT ADDRESS: Mooresville NC 28117 147 Castle Drive

SITE ADDRESS: 144 Hunts Landing Drive Mooresville NC 28117 PHONE: 704-661-8814 ALT. PHONE

SITE DIRECTIONS: - SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Hunts Landing SECTION: - LOT # 7 LOT AREA: .914 Acres DESIGN FLOW: 480 L.T.A.R.: .30

Septic Tank 1000 (gal) STB 760 Date 1-23-2021 ☑ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI

Pump Tank 1000 (gal) PT 363 Date 2-3-2021 System Description: Pro-Ben Manifold - 25% Red

Pump Make - Model - Serial # - Repair System Description: PPBIS-CP-50% Reduction

Nitrification Fields 1 # Lines 5 Linear Ft 400 Maintenance Agreement Required: ☐ YES ☒ NO

Trench Width 36 Trench Bottom Depth 36 Gravel Depth - ☐ GRAVITY ☒ PRESSURE

☒ Residence No. Bedrooms 4 | ☐ Business No. Persons 8 | ☐ Other No. Employees | ☐ Slab ☐ Crawl Space | ☒ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☑ Private ☐ Public ☐ Community

Comments / Conditions:

INITIAL SITE SKETCH

This permit is issued pursuant to Section 11 . (C) of S.L. 2018-114 using the signed and sealed LSS Evaluation by:

Michael Athanas + Associates, Inc

LSS # 1252

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.

3-17-2021 BCM
- TANKS CHECKED NEEDS FILTERS
- DRAIN LINES CHECKED INSTALLED AS SHOWN
- SUPPLY NEEDS TO BE CHECKED PAST FRONT OF HOUSE
- NO PIN INSTALLED @ TIME OF INSPECTION

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: 6/25/2020 Installed by: RICHARD ABERNATHY

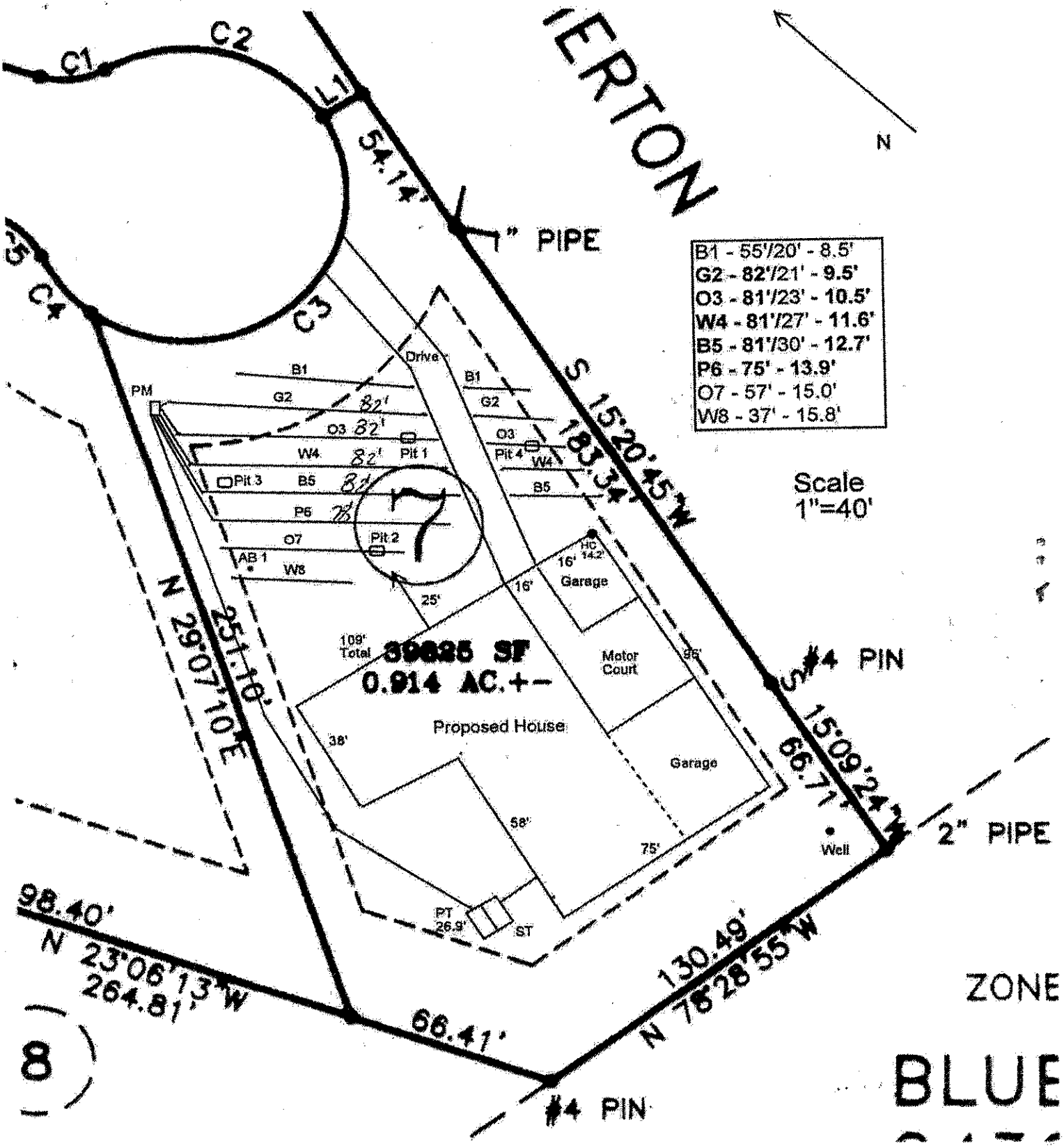
IMPROVEMENT PERMIT by: Date: 6/22/2020 OPERATION PERMIT by: D Meberg Date: 3/31/21

AUTHORIZATION TO CONSTRUCT by: Date: 6/25/2020 Existing System Inspected by: Date:

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

	Date	Initials
Drain Lines Checked	3/17/21	DW
Tanks Checked	3/31/21	DW
Pressure Manifold or Valve Box Checked	3/31/21	DW
Pressure Head Set	3/31/21	DW
Electrical Checked	3/31/21	DW
Floats Set	3/31/21	DW
Alarm Checked	3/31/21	DW
Maintenance Contract Y / (N)	Not Required	

Still need to check last 40 feet of supply line to DM, check header ditch 3/31/21 ✓


IERTON
N
C1
C2
C3
C4
L1
54.14'
" PIPE
S 15°20'45" W
183.34'
B1 - 55'/20' - 8.5'
G2 - 82'/21' - 9.5'
O3 - 81'/23' - 10.5'
W4 - 81'/27' - 11.6'
B5 - 81'/30' - 12.7'
P6 - 75' - 13.9'
O7 - 57' - 15.0'
W8 - 37' - 15.8'
Scale
1"=40'
Drive
PM
B1
G2
O3
W4
Pit 1
Pit 3
B5
P6
O7
Pit 2
AB 1
W8
Pit 4
HC
14.2'
16'
Garage
25'
109'
Total
39625 SF
0.914 AC.+-
Motor
Court
Proposed House
38'
Garage
58'
75'
PT
26.9'
ST
Well
N 29°07'10" E
251.10'
98.40'
N 23°06'13" W
264.81'
66.41'
130.49'
N 75°28'55" W
S #4 PIN
15°09'24" W
66.71'
2" PIPE
#4 PIN
ZONE
BLUE
8



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887
6/16/2020

Reference: Data Sheet for 144 Hunts Landing Dr. Hunts Landing Lot 7
House Footprint: See attached plan
Building Setbacks: 35' front/ rear, 15' side
Water Source: Private well
Number of Bedrooms/Daily Flow: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT^2
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Pressure Manifold
Flow per Tap: 5.48 GPM
Tap Size and Material: ½" SCH 80
System Flow: 27.4 GPM
Dosing Volume: 175 gallons
Pump Run Time: 6.4 minutes
Elevation Head: 22.4'
Friction Head: 0.6'
Pressure Head: 2'
Total Dynamic Head: 25'
Supply Line Length: 205' of 2" PVC
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"



Line	Design Length	Actual Length	Elevation
Blue 1		55'/20'	8.5'
Green 2	**82'**	**85'/21'**	**9.5'**
Orange 3	**81'**	**84'/23'**	**10.5**
White 4	**81'**	**83'/27'**	**11.6'**
Blue 5	**81'**	**82'/30'**	**12.7'**
Pink 6	**75'**	**75'**	**13.9'**
Orange 7		57'	15.0'
White 8		37'	15.8'

Initial System: 400' **Repair System:** 270'
Pump Tank: 26.9' **House Corner:** 14.2' **Benchmark:** 1.0'

Comments: *The LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c).*

PROPERTY ID #: 4648424033
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: JBR Custom Homes Inc
ADDRESS: Mooresville, NC 28117
PROPOSED FACILITY: 4 bdrm PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: 144 Hunts Landing Dr, Hunts Landing Lot 7
APPLICATION DATE
DATE EVALUATED: 6/2020
PROPERTY SIZE: 0.914 AC
PROPERTY RECORDED: 5/13/2020
WATER SUPPLY: X Private ☐ Public X Well ☐ Spring ☐ Other
EVALUATION METHOD: X Auger Boring X Pit ☐ Cut
TYPE OF WASTEWATER: X 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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
PIT 1	LS 8%	0-6	Br SCL WSBK	FR SS SP SXP	N/A	53"	F-C SAP	N/A	PS 0.3-0.35
		6-18	R C SBK	FR SS SP SXP					
		18-53	R CL WSBK	FR SS SP SXP					
PIT 2	LS 8%	0-4	Br SCL WSBK	FR SS SP SXP	N/A	50"	F-C SAP	N/A	PS 0.3-0.35
		4-20	R C SBK	FR SS SP SXP					
		20-50	R CL WSBK	FR SS SP SXP					
PIT 3	LS 8%	0-4	Br SCL WSBK	FR SS SP SXP	N/A	50"	F-C SAP	N/A	PS 0.3-0.35
		4-20	R C SBK	FR SS SP SXP					
		20-50	R CL WSBK	FR SS SP SXP					
PIT 4	LS 8%	0-5	Br SCL WSBK	FR SS SP SXP	N/A	50"	F-C SAP	N/A	PS 0.3
		5-32	R C SBK	FR SS SP SXP					
		32-50	R CL WSBK	FR SS SP SXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200 FT^2	810 FT^2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: MA&A
OTHER(S) PRESENT:

COMMENTS: *The LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c)*

SOIL/SITE EVALUATION

(Continuation Sheet)

PROPERTY ID #:4648424033
DATE OF EVALUATION:
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	
AB 1	LS 8%	0-8	FILL		N/A	48"		N/A	PS 0.3
		8-33	R C SBK	FR SS SP SXP					
		33-48	R CL WSBK	FR SS SP SXP			F-C SAP		



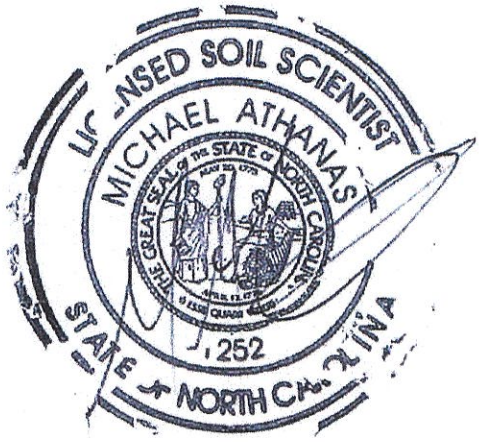
MICHAEL ATHANAS & ASSOCIATES, INC.
LICENSED SOIL SCIENTIST
561 Ennis Road
Weddington, NC 28173
704-576-3887 (Mobile)

Session Law

Property:
144 Hunts Landing Dr
Mooresville, NC 28117
Hunts Landing Lot 7
PIN 4648424033

Prepared for:
JBR Custom Homes Inc

6/16/2020



MICHA01 OP ID: TR

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 02/27/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Vaughan Insurance Group, LLC PO Box 52534 Tulsa, OK 74152-0534 David Vaughan 918-779-7880	CONTACT NAME: Ty Rainey PHONE (A/C, No, Ext): 918-779-7880 FAX (A/C, No): 918-779-7885 E-MAIL ADDRESS: ty@vaughanins.com
	INSURER(S) AFFORDING COVERAGE — NAIC #
	INSURER A: Mid Continent Casualty Company — 23418
INSURED Michael Athanas & Associates, Inc. 561 Ennis Rd Weddington, NC 28173	INSURER B:
	INSURER C:
	INSURER D:
	INSURER E:
	INSURER F:

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR			04-GL-001035195	02/28/2020	02/28/2021	DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
							MED EXP (Any one person)	$ Excluded
	X Professional Liab			04-GL-001035195	02/28/2020	02/28/2021	PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 3,000,000
	X POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 3,000,000
	OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DED RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						PER STATUTE / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) N / A						E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

FORIN-1

For Informational Purposes

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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MICHAEL ATHANAS & ASSOCIATES

NC LICENSED SOIL SCIENTIST
SC PROFESSIONAL SOIL CLASSIFIER
561 Ennis Rd Weddington, NC 28173
MIKE@MICHAELATHANAS.COM
WWW.MICHAELATHANAS.COM
(704) 576-3887

Date: 6/16/2020
Hunt's Landing Project Name

SESSION LAW 218-114, SECTION 11. (C) / HOUSE BILL 374, SECTION 11. (C)
AUTHORIZATION FORM

Michael Athanas & Associates (MA&A) has been contracted to evaluate soil, design and submit a septic system proposal to Iredell (County) on behalf of JBR Custom Homes, Inc (Owner/Applicant for the property located at - 149 Hunts Landing Drive, Mooresville / 4649420864 (address/PIN)

The Licensed Soil Scientist (LSS) Evaluation attached to this application is to be used to produce design and construction features for permitting in accordance with SL 2018-114 section 11 . (c)

By completing this form, sign and dating you agree that the permit issued by Iredell (county) will fall under the above referenced law.

Owner/Owners Legal Representative Jeff Hunt
Mailing address 147 Castle Dr. Mooresville, NC 28117
Telephone Number 704-606-8816
Email Address JBRCustomHomes@gmail.com

Signature of Owner/ Owner Legal Rep.

6/16/20
Date

RECEIVED JUN 17 2020

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM Paid $500.00 AP-308336

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(✓) Septic Improvement Permit ( ) 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: JBR Custom Homes Inc **Address:** Mooresville, NC **Zip:** 28117

Applicant Email: _____ **Phone:** Jeff 704-661-8814 **Alt. Phone:** _____

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

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

Property Information:

Street Address: 144 Hunts Landing Dr

Subdivision Name: Hunts Landing **Section/Phase:** _____ **Lot Number:** 7

Driving Directions: _____

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

(✓) 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
( ) 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: _____
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional (✓) Other: Accepted

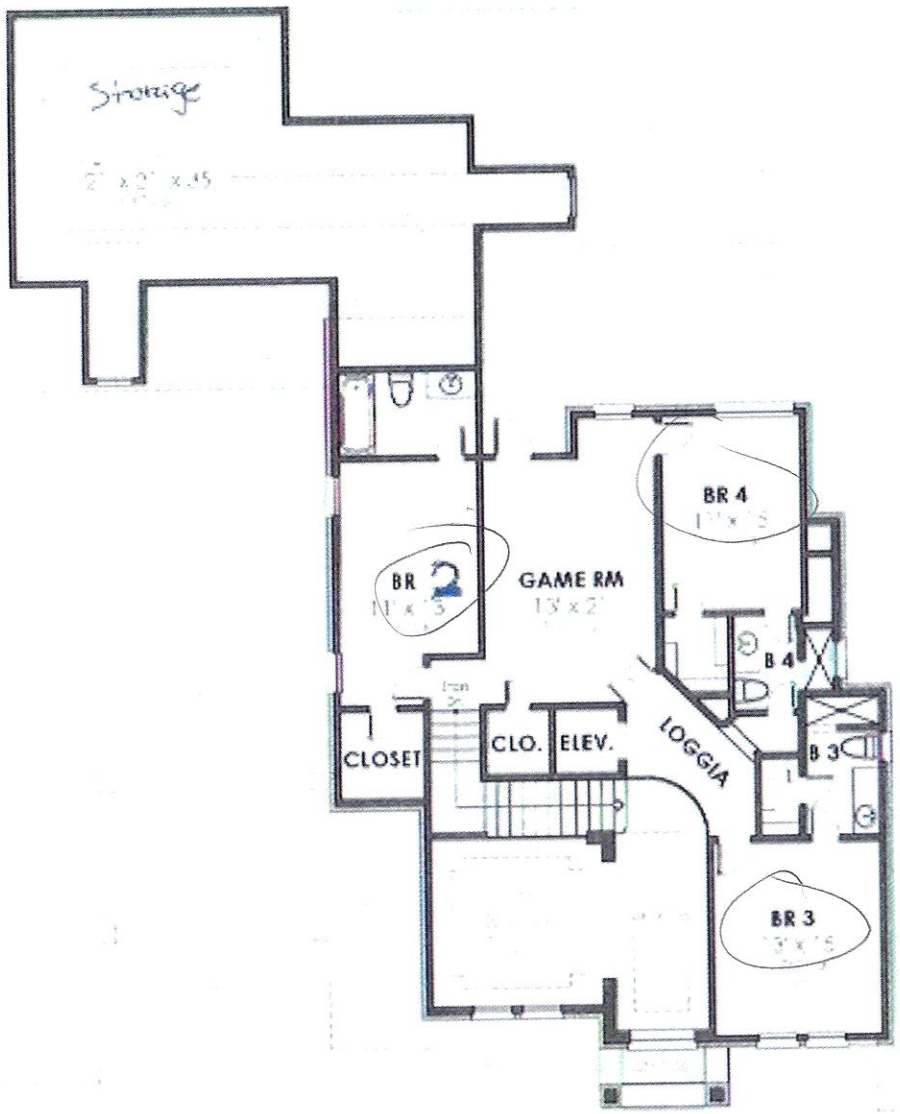
Please answer the following to the best of your ability:

( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (✓) 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: _____ 6/16/2020
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

Reserved



Acknowledgement
Plans Submittal ON
Date 6/25/22
Date 6/25/20

Upper Floor

110



Acknowledgement of Plans Submittal ONLY!

Benjamin A Bell Date 6-25-2020.

Date 6/25/20

Main Floor
4506 Sq. Ft. HLA
4 Bedrooms, 4 full Baths, 2 half Baths, 4 Car Garage
The Manor

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

APPLICATION NUMBER
308336 Issue Date: 06/17/2020

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4648424033.000	144 HUNTS LANDING DR	Iredell County

Owner Information	Applicant Information
Name: JBR CUSTOM HOMES INC Address: Phone:	Name: MICHAEL ATHANAS & ASSOCIATES Address: 561 ENNIS RD WEDDINGTON, NC 28173 Phone: (704)576-3887

Use Requested	Zone Code
Single Family Dwelling	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0	35	35	15	15	WSIV-CA Catawba/Lake Norman	NO

Remarks
SFD

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: 06/17/2020

Signature of Owner/Contractor

Permit Number	308336

TOTAL FEES:	$77.25