BCW

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # AP 318645

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

✓ PIN # 4746 -- 27 -- 6627

APPLICANT/OWNER: CornerStone III Properties | APPLICANT ADDRESS: 259 Textile Way Ft Mill SC 29715

SITE ADDRESS: ✓ 132 Kingswood Drive Statesville NC | PHONE: 704-3013229 | ALT. PHONE

SITE DIRECTIONS: Shumaker Dr. R on Nixon R Kingswood Site at Right | SAP CONTROLLED: ☒ YES ☐ NO

SUBDIVISION: ✓ Kingswood Estates | SECTION: - | LOT # 7 ✓ | LOT AREA: .94 x 200 | DESIGN FLOW: 360 | L.T.A.R.: .30

Septic Tank	1000 (gal)	STB	7460	Date	1/16/22	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI
Pump Tank	1000 (gal)	PT	3608	Date	3/12/22	System Description:	Vertical - PPBPS - 50% Reduction - PM		
Pump Make		Model		Serial #		Repair System Description:	12 - PPBPS - 50% Reduction		
# Nitrification Fields	1	# Lines	4	Linear Ft	200	Maintenance Agreement Required:	☐ YES	☒ NO	
Trench Width	24in	Trench Bottom Depth	23 in	Gravel Depth	—		☐ GRAVITY	☒ PRESSURE	

				Water Supply
☒ Residence	No. Bedrooms	3		☐ Private
☐ Business	No. Persons	6		☒ Public
☐ Other	No. Employees			☐ Community
☐ Slab	☒ Crawl Space			
☐ Basement w/plumbing				☐ Basement w/o plumbing

Comments / Conditions:

½" SCH40 taps
8.64" drawdown

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 Wood / Evan Morgan

LSS # 1219 / 1340

Dated 5/28/2021.

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.

- Observed chroma 1 & 2 soil in trenches (see as built for area), FREQUENT yellow-browns
- Installer indicated he saw those colors @ approx. 18"-20" during digging

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: Stan Pruett | Date: 8/13/21 | Installed by: Lentz Waste Water

IMPROVEMENT PERMIT by: Benjamin A Boyette | Date: 7/16/2021 | OPERATION PERMIT by: Cory Lentz | Date: 6/29/22

AUTHORIZATION TO CONSTRUCT by: Benjamin A Boyette | Date: 7/16/2021. | 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	4/29/22	DW
Tanks Checked	4/29/22	DW
Pressure Manifold or Valve Box Checked	4/29/22	DW
Pressure Head Set	4/29/22	DW
Electrical Checked	6/29/22	CW
Floats Set	4/29/22	DW
Alarm Checked	4/29/22	DW
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? _____	

132 Kingswood

As Built

Notice

* Property subject to any easements and right of way on record, and all NCDOT easements and rights of way.

* This survey is subject to any facts that may be disclosed by a full and accurate title search.

* This survey plat does not show any unrecorded, written or unwritten easements, dedications or other encumbrances. Such burdens could exist on this property and not appear on this plat. Accordingly, users of this plat are warned to remain alert for the existence of such unrecorded burdens not shown hereon.

* This plat was drawn for the exclusive use of the party named hereon. Said certificates do not extend to any unnamed person without an express recertification by the surveyor naming said person.

* This plat represents an actual field survey that meets or exceeds the minimum requirements of a Class A Survey in accordance with the Standards of Practice for Land Surveying in North Carolina according to North Carolina Administrative Code Title 21, Chapter 56, Section 1607.

* The Global Navigation Satellite System (GNSS) was used to perform to geospatial positioning accuracy standards, part 2 standers for geodetic networks at the 95% confidence accuracy classifaction (95% confidence) using real time kinematic. The following information was used:

Class of Survey: CLASS A
Positional Accuracy: 0.09'
Type of GPS Field Procedure: RTK
Dates of Survey: 5/10/2021-5/11/2021
Datum/Epoch: NAD83 (2011)
Published/Fixed-Control Use: VRS
GEOID Model: 2018
Combined Grid Factor: 0.99987812
Units: US Survey Feet

* Area determined by coordinate computations.

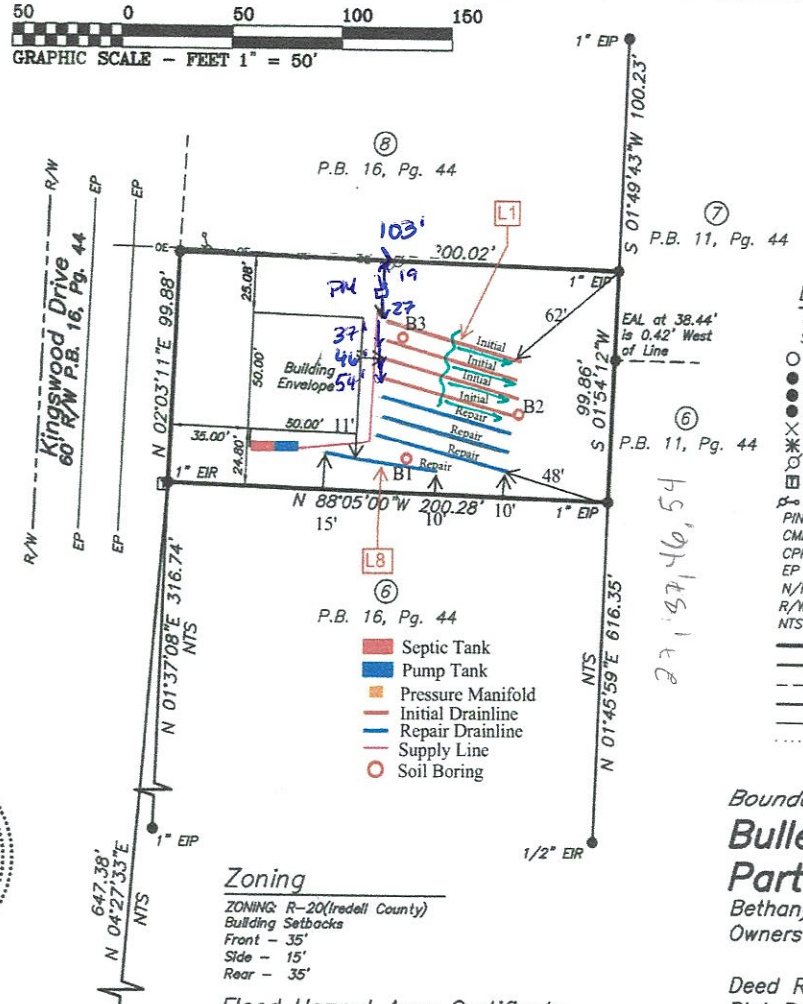
* No NGS or NCGS Horiz. Control Monument found within 2,000 feet of the site.

Witness this my original signature, registration number and seal this 11th day of May, 2021 A.D.

Ted M. Benbow NC PLS L-3175
Firm License # C-1588

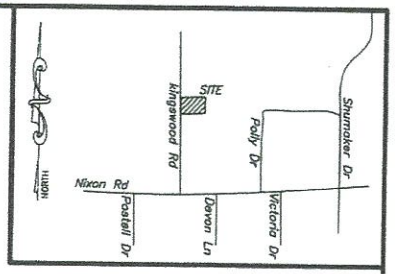
NORTH CAROLINA PROFESSIONAL SEAL L-3175 LAND SURVEYOR TED M. BENBOW

TED BENBOW Land Surveying
Proudly Surveying Iredell County
Since 1989
630 SIGNAL HILL DRIVE EXT., STATESVILLE, NC 28625
PHONE (704) 878-9661
www.boundarydevelopment.com



RELATIVE TO P.B. 16, Pg. 44

PK Nail Set in Intersection of Kingswood Dr. and Nixon Rd.



Vicinity Map, NTS

Legend

CAPS ON MONUMENTS SET CONTAIN THE SURVEYORS NAME AND LICENSE NUMBER.

- IRS ..... 1/2" IRON ROD SET WITH YELLOW CAP
- EIP ..... EXISTING IRON PIPE AS SHOWN
- EIR ..... EXISTING IRON ROD AS SHOWN
- EAI ..... EXISTING ANGLE IRON
- CP ..... COMPUTED POINT
- PK ..... PK NAIL SET
- UTILITY POLE
- TELEPHONE PEDESTAL
- LIGHT POLE
- PIN ..... PARCEL IDENTIFICATION NUMBER
- CMP ..... CORRUGATED METAL PIPE
- CPP ..... CORRUGATED PLASTIC PIPE
- EP ..... EDGE OF PAVEMENT
- N/F ..... NOW OR FORMERLY
- R/W ..... RIGHT OF WAY
- NTS ..... NOT TO SCALE
- LINE SURVEYED
- TIE LINE SURVEYED
- LINE NOT SURVEYED
- RIGHT-OF-WAY LINE
- OE OVERHEAD UTILITY LINE
- SETBACK LINES

Zoning

ZONING: R-20(Iredell County)
Building Setbacks
Front - 35'
Side - 15'
Rear - 35'

Flood Hazard Area Certificate

According to mapping provided by the Federal Emergency Management Agency and shown on the Digital Flood Insurance Rate Map (DFIRM) Panel 4746, Iredell County, North Carolina, effective date: 3/18/2008, the property shown hereon is not located within a special flood hazard area. The property is entirely within an area designated "Zone X - other areas". Areas determined to be outside the 0.2% annual chance floodplain: areas outside future conditions 1% annual chance floodplain.

Boundary Survey For:

Buller River Development Partners, LLC

Bethany Township, Iredell County, NC
Owners of Record: Keith M. Norris and wife, Elizabeth S. Norris
Deed Reference: D.B. 742, Pg. 364
Plat Reference: P.B. 16, Pg. 44
PIN: 4746-27-6627
Job Number:2105110.DWG (2105110.CRD)
Field Work: 5-10-2021
Plat Date: 5-11-2021

area where Chroma 1 & chroma 2 colors observed

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1,000 gallons in capacity.
2. The septic tank will be fitted with an approved effluent filter and riser for easy access and periodic maintenance.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tank has had time to properly cure and is free of cracks or other structural deficiencies.

B. Pump Tank

1. The pump tank shall be State approved, of one-piece construction, watertight, structurally sound and 1,000 gallons capacity. Again, it is the responsibility of the septic tank contractor to thoroughly inspect each pump tank prior to accepting delivery.
2. All pipe penetrations into the tank shall be booted (i.e., C-293 boot with a stainless-steel strap).
3. The pump tank shall have access risers that extend, at a minimum, 6 inches above finished grade and must have less than 36 inches of fill over its top once finished grade has been established (a reinforced concrete tank will be required if finished soil cover is 36 inches or greater in depth).
4. Floats, pump and control circuits, and the control panel shall meet the requirements of Rule .1952(c). Panel and control equipment shall include lightning protection, be protected from unauthorized access, and always remain accessible to the system operator.
5. The pump and alarm controls shall be provided with manual circuit disconnects within a watertight, corrosion resistant, NEMA 4x rated control panel. The control panel must be securely mounted outside, adjacent to the pump tank riser and at a minimum of 12 inches above finished grade. Pump and float control wiring should be long enough to reach from the tank to the control panel without splicing, routed through wire conduit, and sealed at the openings within the pump tank as well as the control panel enclosure. It is paramount that the conduit is properly sealed to prevent the escape of flammable gases from the pump tank. Furthermore, there must be two electrical circuits for the pump tank controls: one for the pump and one for the alarm controls.
6. Float switch tie downs must be made of a corrosion resistant material (per OWPS, all metal in the tanks shall be stainless steel). Floats should be mounted on a separate "float tree" rather than the pump supply line (see pump tank detail).
7. The pump removal system will be via a pump tether made of nylon rope or its equivalent. The tether material should be resistant to mildew and rot.

C. Pipes and Fittings

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.
2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.
3. The supply line from the pump tank to the pressure manifold shall be 2-inch Schedule 40 PVC (approximate length of supply line is 70 feet).
4. There shall be a threaded PVC union above each pump to facilitate easy removal of the pumps for maintenance or replacement.

D. Manifold Box

1. The control valves (gate valves) for each lateral distribution line shall be contained within one manifold box/vault of adequate size. The box should be placed upon a gravel base.
2. The supply manifold conveys effluent from the pump to the lateral distribution lines.
3. The supply manifold should be constructed of 4" SCH 40 PVC with 4 taps to the drainfield. Tap sizes are shown on the PPBPS Design Worksheet.

E. Backfill

1. Backfill sand shall be clean, washed, medium sand that is naturally occurring and falls within the gradation of ASTM C-33 specification (used in the ready-mix industry and is readily available).

F. Drainfield Installation

1. The drainfield and the proposed septic tank location have been marked on-site utilizing metal stemmed flags. Once this area has been approved by the County, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the County for a preconstruction conference at which time the drainfield area will be re-verified.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition. If the installer has doubts as to whether or not the drain field area is dry enough to begin construction, the environmental health specialist for this area should be contacted for permission to proceed with the installation.
3. The specified system is a Type III-B/E pump to manifold to vertical - prefabricated permeable block panel system – specifically the 16-inch high panel system manufactured by T&J Panel Wastewater Treatment System, Patent No. 4013559; telephone: 1-800-222-2577. The installer must follow the manufacturer's guidelines for installing the T&J Panel System and should request an installation manual from the manufacturer prior to beginning construction.
4. The initial drain field consists of four (4) lateral trenches 2 feet wide by 50 feet in length.

5. It is essential that the lateral trenches be constructed on contour with the land, with each trench being excavated level from beginning to end. The use of a tripod mounted engineer's level is essential to assure that each trench is constructed as level as possible.
6. The maximum trench depth for this system shall be **28 inches**. Each trench shall be placed on minimum 8 foot centers.
7. Once trenches are dug, the side walls shall be raked and a light dusting of lime applied.
8. Backfill the trench with 6 inches of sand and level to grade. Once leveled, place 1 x 4- or 6-inch boards on top of the sand the entire length of each trench. Once the grade boards have been set, the panels may be set into the trench. The panels should be placed 6-inches apart but can be slightly minimized as needed to allow for installation.
9. Once the panels have been set, line the top chamber of each panel with 10 – 12 pounds of clean particle sand (medium sand blasting sand). Coverage depth should be approximately 1 inch thick. *Please note that this sand is not the same material specified for backfill.*
10. Tar seal rope, or approved foam, should be placed in the "U" outs of each end of the panel to form seals. Once the tar rope is in place, the 2-inch Schedule 40 PVC laterals can be added and the seal completed by the addition of more tar rope on the top and sides of the pipe. Now that the connection and seals are complete, a block cap is placed on each end of the panel so that all openings are covered.
11. Once the lateral has been installed and the panels closed, the trench is ready to be backfilled to the top with the sand used in the trench bottom. At this point, the trenches should be left open for the final inspection by the County.

:nitial & Repair Systems - Lot 7 Kingswood Drive

Field Line #	Color	Initial/Repair	Field Length	System Length	Setup #1	Relative Elevation
1	B	Initial	61	50	5.22	106.78
2	Y	Initial	61	50	5.7	106.3
3	W	Initial	61	50	6.61	105.39
4	R	Initial	61	50	8.05	103.95
5	B	Repair	61	50	8.9	103.1
6	Y	Repair	61	50	9.65	102.35
7	W	Repair	64	50	10.7	101.3
8	R	Repair	87	50	11.82	100.18
				Proposed Pump Tank	12	100

G. Proper Operation Check

1. After all components of the wastewater disposal system have been installed and connected, the system shall be checked for proper operation.

H. Final Landscaping

1. The drainfield shall be shaped to shed rainwater and be free from low spots.

2. The entire area of the drainfield should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

I. Utility/Drive Conflicts

1. The builder and property owner must take special care in planning for utilities (water, power, gas, telephone, cable lines, etc.). All utilities shall be kept clear of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage and permit revocation.
2. Water lines must be kept at least ten (10) feet from any portion of the septic system.
3. Irrigation systems should not be placed in the drain field area.

Maintenance

J. Operation and Maintenance

The designed system is classified as a Type III-B/E wastewater treatment and disposal system and does not require ongoing maintenance via a person certified (Certified Subsurface System Operator) by the North Carolina Department of Environment and Natural Resources to operate subsurface wastewater systems (Section .1961 Maintenance of Sewage Systems). However, the following maintenance should be considered by the owner.

1. The septic tank shall be pumped out when the solids within the septic tank reach an elevation that is equivalent to 25% of the volume of the tank. In some situations, the tanks may need to be pumped more frequently; for example, if you are using a garbage disposal, it is recommended that the septic and pump tanks be cleaned out annually.
2. The effluent filters should be inspected semi-annually. When it becomes necessary to clean the effluent filters, the filters should be removed and the accumulated debris washed back into the septic or pump tank – not onto the lawn.
3. All piping and valves should be inspected semi-annually for damage and corrections/repairs made immediately.
4. The drain field area should be maintained to prevent overgrowth of vegetation. Any damp areas, leakages or malfunctions should be addressed immediately.
5. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

K. Suggestions to the Homeowner

1. A garbage disposal is not recommended. The ground up garbage adds large amounts of solids into a septic tank that tend to degrade at a very slow rate.
2. Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes and solid paper wastes) should never be put into a septic tank.
3. Used motor oil or any oily liquids should not be disposed of in a septic tank.

4. Be aware of the amount of water that you are using in your home. Water saving fixtures and devices can be installed on sinks, toilets and showers to reduce the volume of wastewater that you are sending to your drain field.
5. Run dishwashers and washing machines only when you have a full load.
6. Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drain field.
7. Do not use chemical additives in your system. Studies have indicated that they do not increase the biological activity that naturally occurs in the septic system and in some cases certain additives have been found to be detrimental to the life of a system.

Initial System Design Specifics

Daily Design Flow:	360 GPD 3-bedroom house
Septic Tank Size:	1,000 Gallons (minimum)
Pump Tank Size:	1,000 Gallons (minimum)
Effluent Loading Rate:	0.300 GPD per sq. ft.
Drainfield Type:	Vertical PPBPS (50% Reduction)
Maximum Trench Depth:	28 Inches
Supply Size:	2 Inch
Supply Line Length:	Approximately 70 feet
Number of Drainlines:	4
**Drain Lines:	(4) 2' Wide x 50' Long
**Drainline Spacing:	8 Foot on Centers
Total Trench Length:	200 Linear Feet
Total Number of Panels:	48
Distribution Method:	Manifold
Number of Taps:	4: (1/2 Inch SCH 40)
Dosing Volume:	172.8 Gallons
Pump Run Time:	6.08 Minutes
Pressure Head:	2 Feet
Elevation/Friction Head	15.43 Feet
*Pump Requirements:	28.44 GPM at 17.43 Feet TDH
Recommended Pump:	Zoeller 130 Series or equiv.

* Total Dynamic Head (TDH) for system is estimated based upon existing elevations, approximate pump off elevation, design pressure head and supply line length. Total Dynamic Head should be reconfirmed by septic contractor at the time of system installation based upon actual tank depth and pressure manifold height.
** See drainfield layout for site locations and more details.

Repair System Design Specifics

Effluent Loading Rate:	0.300 GPD per sq. ft.
Drainfield Type:	Vertical PPBPS (50% Reduction)
Maximum Trench Depth:	23 Inches
Supply Size:	2 Inch
Supply Line Length:	Approximately 50 feet
Number of Drainlines:	3
**Drain Lines:	(4) 2' Wide x 50' Long
**Drainline Spacing:	8 Foot on Centers
Total Trench Length:	200 Linear Feet
Total Number of Panels:	48
Distribution Method:	Manifold
Number of Taps:	4: (1/2 Inch SCH 40)
Dosing Volume:	172.8 Gallons
Pump Run Time:	6.08 Minutes
Pressure Head:	2 Feet
Elevation/Friction Head	11.37 Feet
*Pump Requirements:	28.44 GPM at 13.37 Feet TDH
Recommended Pump:	Zoeller 130 Series or equiv.

* Total Dynamic Head (TDH) for system is estimated based upon existing elevations, approximate pump off elevation, design pressure head and supply line length. Total Dynamic Head should be reconfirmed by septic contractor at the time of system installation based upon actual tank depth and pressure manifold height.
** See drainfield layout for site locations and more details.

PPBPS Design Worksheet

PIN: 4746-27-6627
Address: Lot 7 Kingswood Drive
Bethany Township, Statesville, NC
Consultant Michael Wood
Phone: 919-417-8027

System Requirements

Design Flow	360	GPD
LTAR	0.3	GPD/ft^2 *Design rate - Not Assigned Rate
Linear Footage	400	ft. (conventional)
Linear Footage	200	ft. (50% reduction)

Initial Design Layout

Laterals	Length(ft)	# Panels	Gal/Line	Hole Size	flow/tap	Dose Time	
Line # 1	50	12	43.2	1/2in SCH 40	7.11	6.08	
Line # 2	50	12	43.2	1/2in SCH 40	7.11	6.08	
Line # 3	50	12	43.2	1/2in SCH 40	7.11	6.08	
Line # 4	50	12	43.2	1/2in SCH 40	7.11	6.08	
Totals	**200**	**48**	**172.8**	-	**28.44**	6.08	Time Used

Repair Design Layout

Laterals	Length(ft)	# Panels	Gal/Line	Hole Size	flow/tap	Dose Time	
Line # 5	50	12	43.2	1/2in SCH 40	7.11	6.08	
Line # 6	50	12	43.2	1/2in SCH 40	7.11	6.08	
Line # 7	50	12	43.2	1/2in SCH 40	7.11	6.08	
Line # 8	50	12	43.2	1/2in SCH 40	7.11	6.08	
Totals	**200**	**48**	**172.8**	-	**28.44**	6.08	Time Used

Absorption Area

Length (ft)	Width (ft)	Area (ft^2)
200	2	400

System Pressure Head	2	ft.	value selected by system designed (must be between 2-5 ft.)
Total System Flow Rate	28.44	GPM	Total tap size GPM
System Dose Volume	172.8	gal.	Total number of panels required multiplied by 3.6 gal./panel
Pump Run Time	6.08	in.	System dose volume dvidided by total system flow rate
Pump Tank Drawdown	8.64	in.	1,000 gal. Infiltrator pump tank - volume is approximately 20 gallons per inch

Comments

1. Install system using 2 ft. wide trenches
2. Instal drainlines on 8ft. Centers, level, and on contour.
3. System design requires effluent pump for distribution.

Initial

Supply Line length:	70	**ft**
Diameter	2	**in sch 40pvc**
Friction Loss + Fitting Loss:	2.65	**ft(supply line length + 70' for fittings in pump tank)**
Design Head:	2	**ft**
Elevation Head:	12.78	**ft**
Total Head:	17.43	**ft**
Pump to Deliver:	28.44	**gals/min at** 17.43 **ft head**

Bench Mark	See Attached	Is = 100.00	set at Pump Tank		
Pump tank elev.	100.00	Pump elev.	95.00	Manifold elev.	107.78
line	color	rod read	Elevation		
1	Blue	See Attached	106.78		
2	Yellow	See Attached	106.30		
3	White	See Attached	105.39		
4	Red	See Attached	103.95		

Repair

Supply Line length:	50	**ft**
Diameter	2	**in sch 40pvc**
Friction Loss + Fitting Loss:	2.27	**ft(supply line length + 70' for fittings in pump tank)**
Design Head:	2	**ft**
Elevation Head:	9.10	**ft**
Total Head:	13.37	**ft**
Pump to Deliver:	28.44	**gals/min at** 13.37 **ft head**

Bench Mark	See Attached	Is = 100.00	set at Pump Tank		
Pump tank elev.	100.00	Pump elev.	95.00	Manifold elev.	104.10
line	color	rod read	Elevation		
5	Blue	See Attached	103.10		
6	Yellow	See Attached	102.35		
7	White	See Attached	101.30		
8	Red	See Attached	100.18		

Michael G. Wood, LSS
620 Lee Fox Lane
Hillsborough, NC 27278

PROPERTY ID #: 4746-27-6627
COUNTY: IREDELL

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**

OWNER: BULLER RIVER DEVELOPMENT PARTNERS
ADDRESS: 118 E. KINGSTON AVE., UNIT 16, CHARLOTTE, NC 28703
PROPOSED FACILITY: RES. PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: LOT 7 KINGSWOOD DR., STATESVILLE, NC
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

DATE EVALUATED: 5-23-21
PROPERTY SIZE: 0.46
PROPERTY RECORDED:

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
1	L/8	0-8	GR/scl	VFR/N	—	>42"	—	—	PS 0.4
		8-42+	SBK/scl	FR/S					
2	L/8	0-9	SBK/sc	FI/S	42"	42"	—	—	PS 0.4
		9-43+	SBK/scl	FR/S					
3	SS/4	0-8	GR/scl	VFR/N	—	37	37	—	PS 0.4
		8-37	SBK/scl	FR/S					
		37+	M/scl	FR/S					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	V-PPBPS	V-PPBPS
Site LTAR	0.30	0.30

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PROV SUES
EVALUATED BY: M. WOOD, E. MORGAN
OTHER(S) PRESENT:

COMMENTS:

LICENSED SOIL SCIENTIST MICHAEL G. WOOD 1219 STATE OF NORTH CAROLINA

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

Lot 7 Kingswood Drive
Bethany Township, Statesville, Iredell County, NC

PIN # 4746-27-6627
May 28, 2021

Prepared for:

Stan W Pressley
Cornerstone III Properties
704-301-3229
Stan@cornerstone3p.com



Prepared by:

Michael G. Wood, LSS
Evan T. Morgan, LSS
620 Lee Fox Lane
Hillsborough, NC 27278
Phone: 919-417-8027



The 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).

SL-2018-114 LSS Evaluation

132 Kingswood Drive

The 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).

6/24/21

Owner's Signature Date

6/24/21

Owner's Legal Representative Signature Date

6/21/21

LSS Signature Date

LICENSED SOIL SCIENTIST
MICHAEL G. WOOD
1819
STATE OF NORTH CAROLINA

*Septic installer must be preapproved by Michael Wood.
*Septic drainfield area must be protected from construction traffic and grading throughout the life of the project. Orange barrier fencing is recommended to protect the septic drainfield area.

Details

Cornerstone III Properties has contracted with Michael G. Wood, LSS to prepare Session Law 2018-114 Section 11 (c) septic proposal for a new 3-bedroom single family residence to be located at Lot 7 Kingswood Drive, Bethany Township, Statesville, North Carolina (Iredell County Parcel Number: 4746-27-6627).

Based upon a soils investigation performed by Michael G. Wood, LSS, it has been determined that a sufficient amount of "Suitable" Group IV soils is available for the installation of a **Pressure Manifold to Gravity Vertical - Pre-Fabricated Permeable Block Panel System** for the initial system and repair system at a 0.30 GPD/ft. sq. long term acceptance rate (LTAR).

Cornerstone Properties requests that Iredell County Environmental Health (ICEH) issue the appropriate permits for a subsurface wastewater treatment and disposal system based upon the following proposal and the enclosed Licensed Soil Scientist Evaluation, which is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11. (c).

Location

From Statesville, take NC-115/Center Street north for approximately 2.2 miles then turn right onto S Chipley Ford Road for 2.8 miles. Then turn right onto Nixon Road. After 1.2 miles turn left onto Kingswood Drive. Lot 7 Kingswood Drive will be on the right after ¼ mile.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, December 6, 2018.

Design, Installation and Maintenance of the T & J Panel Wastewater Treatment System; 2021, published by T & J Panel.

Primary Investigator's Credentials

NC Licensed Soil Scientist No. 1219
NC Licensed Soil Scientist No. 1340

Trusted. Tested. Tough.®

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

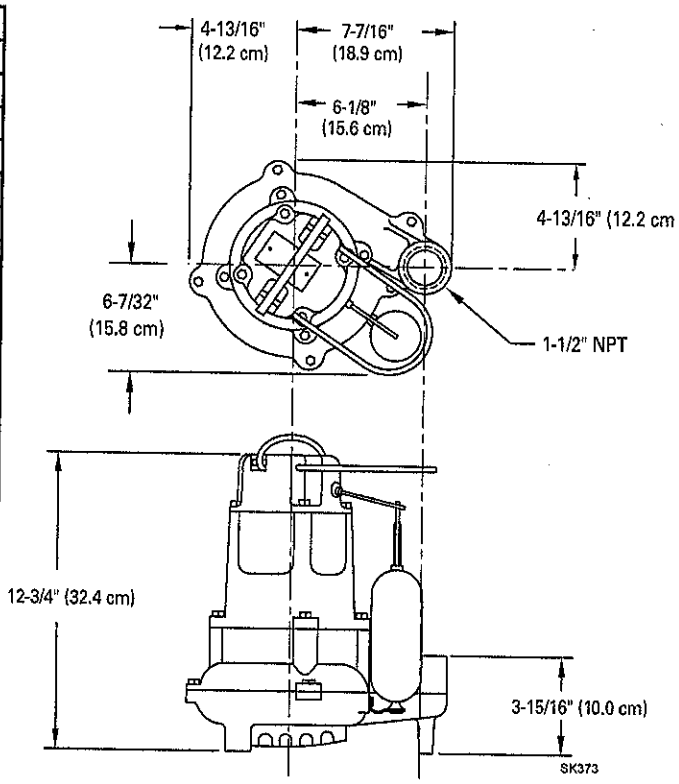
ZOELLER® PUMP COMPANY

SECTION: 2.15.060
FM2782
0220
Supersedes
0619

TECHNICAL DATA SHEET
FLOW-MATE SERIES
Models 137, 139 Effluent / Dewatering Pumps

PRODUCT SPECIFICATIONS

MOTOR	Horse Power	1/2
	Voltage	115 - 460
	Phase	1 or 3 Ph
	Hertz	60 Hz
	RPM	1750
	Type	Split phase or 3 phase
	Insulation	Class B
	Amps	1.4 - 10.7
PUMP	Operation	Automatic or nonautomatic
	Auto On/Off Points	10" (25.4 cm) / 2-3/4" (7 cm)
	Discharge Size	1-1/2" NPT
	Solids Handling	5/8" (15 mm) spherical solids
	Cord Length	10' (3 m) automatic, 15' (5 m) nonautomatic
	Cord Type	UL listed, neoprene cord
	Max. Head	26' (8 m)
	Max. Flow Rate	93 GPM (352 LPM)
	Max. Operating Temp.	130° F (54° C) [extra duty 140°F (60°C)]
	Cooling	Oil filled
	Motor Protection	Auto reset thermal overload (1 Ph)
MATERIALS	Motor Housing	Cast iron (137) or bronze (139)
	Pump Housing	Cast iron (137) or bronze (139)
	Base	Cast iron (137) or bronze (139)
	Upper Bearing	Sleeve bearing
	Lower Bearing	Sleeve bearing
	Mechanical Seals	Carbon and ceramic
	Impeller Type	Non-clogging vortex
	Impeller	Cast iron or bronze
	Hardware	Stainless steel
	Motor Shaft	AISI 1215 cold rolled steel
	Gasket	Neoprene



NOTE: See model comparison chart for specific details.

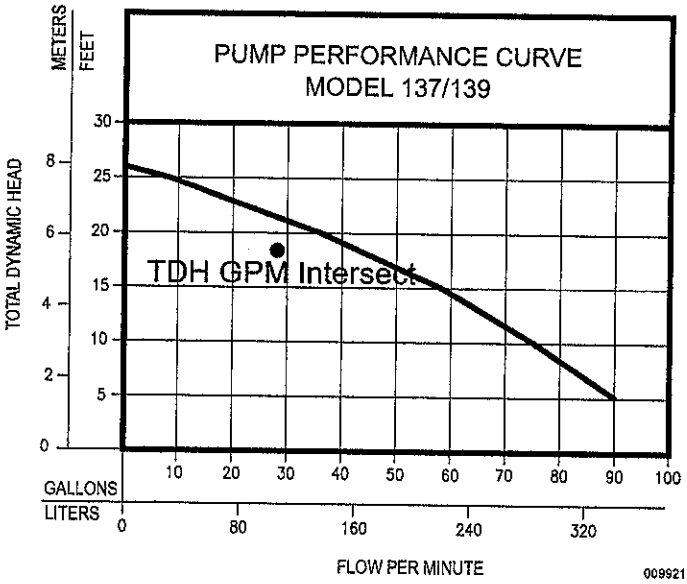
Made In The USA.
Using a majority of U.S. components.

Tested to Standard UL778 and Certified to CSA Standard C22.2 No. 108

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TOTAL DYNAMIC HEAD FLOW PER MINUTE

MODEL		137/139	
Feet	Meters	Gal.	Liters
5	1.5	90	340
10	3.0	75	284
15	4.6	58	220
20	6.1	36	136
25	7.6	8	30
Shut-off Head:		26 ft.(8.0m)	



Model	MODEL COMPARISON											CERTIFICATIONS	
	Seal	Mode	Volts	Ph	Amps	HP	Hz	Lbs	Kg	Simplex	Duplex	CSA	UL
M137	Single	Auto	115	1	10.7	1/2	60	47	21	1	4	Y	Y
N137	Single	Non	115	1	10.7	1/2	60	46	21	2 or 3	2 or 4	Y	Y
BN137	Single	Auto	115	1	10.7	1/2	60	48	22	**	4	Y	Y
D137	Single	Auto	230	1	5.8	1/2	60	47	21	1	4	Y	Y
E137	Single	Non	230	1	5.8	1/2	60	48	22	2 or 3	4	Y	Y
* H137	Single	Auto	200	1	6.2	1/2	60	48	22	1	4	Y	N
* I137	Single	Non	200	1	6.2	1/2	60	48	22	3	4	Y	N
* J137	Single	Non	200	3	2.6	1/2	60	46	21	3	4	Y	Y
* F137	Single	Non	230	3	2.6	1/2	60	48	22	3	4	Y	Y
* G137	Single	Non	460	3	1.4	1/2	60	48	22	3	4	N	N
BE137	Single	Auto	230	1	5.8	1/2	60	48	22	**	---	Y	Y
M139	Single	Auto	115	1	10.7	1/2	60	51	23	1	4	Y	Y
N139	Single	Non	115	1	10.7	1/2	60	51	23	2 or 3	2 or 4	Y	Y
D139	Single	Auto	230	1	5.8	1/2	60	47	21	1	4	Y	Y
E139	Single	Non	230	1	5.8	1/2	60	48	22	2 or 3	4	Y	Y
*H139	Single	Auto	200	1	6.2	1/2	60	48	22	1	4	Y	N
*I139	Single	Non	200	1	6.2	1/2	60	48	22	3	4	Y	N
*J139	Single	Non	200	3	2.6	1/2	60	50	23	3	4	Y	Y
*F139	Single	Non	230	3	2.6	1/2	60	48	22	3	4	Y	Y
*G139	Single	Non	460	3	1.4	1/2	60	48	22	3	4	N	N

* No molded plug ** Single piggyback switch included BE and BN models include a piggyback variable level pump switch.

SELECTION GUIDE

1. Integral float-operated mechanical switch, no external control required.
2. For automatic, use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
3. See FM1228 for correct model of simplex control panel.
4. See FM0712 for correct model of duplex control panel or FM1663 for a residential alternator system.

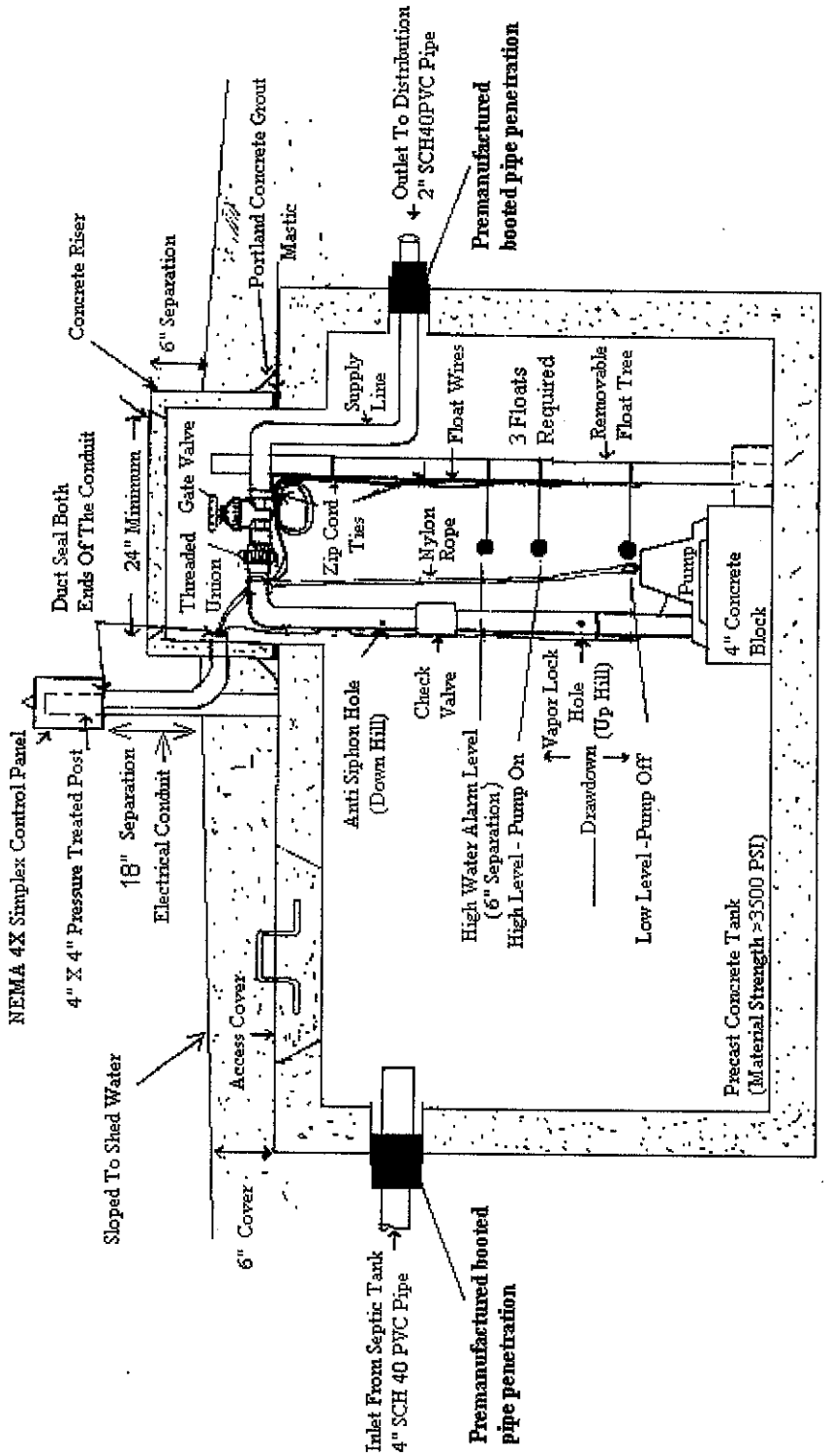
⚠ CAUTION All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

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Michael G. Wood, LSS
620 Lee Fox Lane
Hillsborough, NC 27278

Lot 7 Kingswood Drive

Recommended Pump Tank Design



RECEIVED JUN 1 1 2021

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

Iredell County Health Department – Environmental Health Division

SL *SEPTIC* PAGE 1: *APPLICATION FORM* AP-318645 $1200.00

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
Please 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: CORNERSTONE III PROPERTIES Address: 259 TEXTILE WAY FT. MILL SC Zip: 29715
Applicant Email: STAN@CORNERSTONE3R.COM Phone: 704 301 3229 Alt. Phone: X
Owner Name: BUFFER RIVER DEVELP. Address: 259 TEXTILE WAY FT. MILL, SC Zip: 29715
Owner Email: N/A Phone: N/A Alt. Phone: N/A

Property Information:

Street Address: 132 KINGSWOOD DRIVE #4746 27 6627
Subdivision Name: KINGSWOOD ESTATES Section/Phase: _____ Lot Number: 7
Driving Directions: SHUMAKER DR. SOUTH / RT ON NIXON RD / RT. ON KINGSWOOD RD / SITE AT RIGHT

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: 3
Maximum Number of Occupants: 3
( ) 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: 1 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: _____

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: Stan Cauley 6/11/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

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

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative: *Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship*
In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:
Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form. If there are multiple property owners, then all property owners must sign the form that designates a legal representative.

By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

2. I, PAM HARDING/BULLER RIVER, am the legal owner(s) of the property located at KINGSWOOD DRIVE, identified as

PIN (Parcel Identification Number) 4746 27 6627 located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) STAN PRESSLEY/CORNERSTONE III, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

Pam Harding/Buller River Dev. Dept — 6/4/21

Signature of Owner(s) — Date

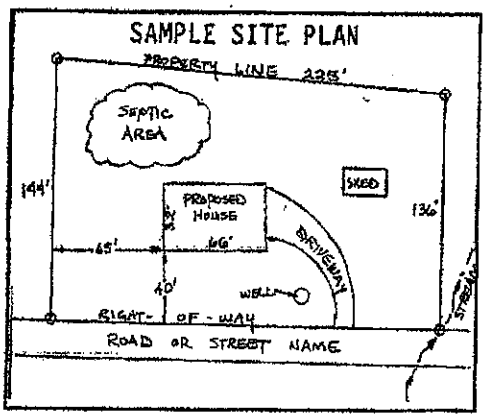
Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

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

* See Sanitarian Letter *

ATTACHED

Signature: Stan Pauley

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

6/4/21

DATE

Notice

* Property subject to any easements and right of way on record, and all NCDOT easements and rights of way.

* This survey is subject to any facts that may be disclosed by a full and accurate title search.

* This survey plat does not show any unrecorded, written or unwritten easements, dedications or other encumbrances. Such burdens could exist on this property and not appear on this plat. Accordingly, users of this plat are warned to remain alert for the existence of such unrecorded burdens not shown hereon.

* This plat was drawn for the exclusive use of the party named hereon. Said certificates do not extend to any unnamed person without an express recertification by the surveyor naming said person.

* This plat represents an actual field survey that meets or exceeds the minimum requirements of a Class A Survey in accordance with the Standards of Practice for Land Surveying in North Carolina according to North Carolina Administrative Code Title 21, Chapter 56, Section 1607.

* The Global Navigation Satellite System (GNSS) was used to perform to geospatial positioning accuracy standards, part 2 standers for geodetic networks at the 95% confidence accuracy classifaction (95% confidence) using real time kinematic. The following information was used:

Class of Survey: CLASS A
Positional Accuracy: 0.09'
Type of GPS Field Procedure: RTK
Dates of Survey: 5/10/2021-5/11/2021
Datum/Epoch: NAD83 (2011)
Published/Fixed-Control Use: VRS
GEOID Model: 2018
Combined Grid Factor: 0.99987812
Units: US Survey Feet

* Area determined by coordinate computations.

* No NGS or NCGS Horiz. Control Monument found within 2,000 feet of the site.

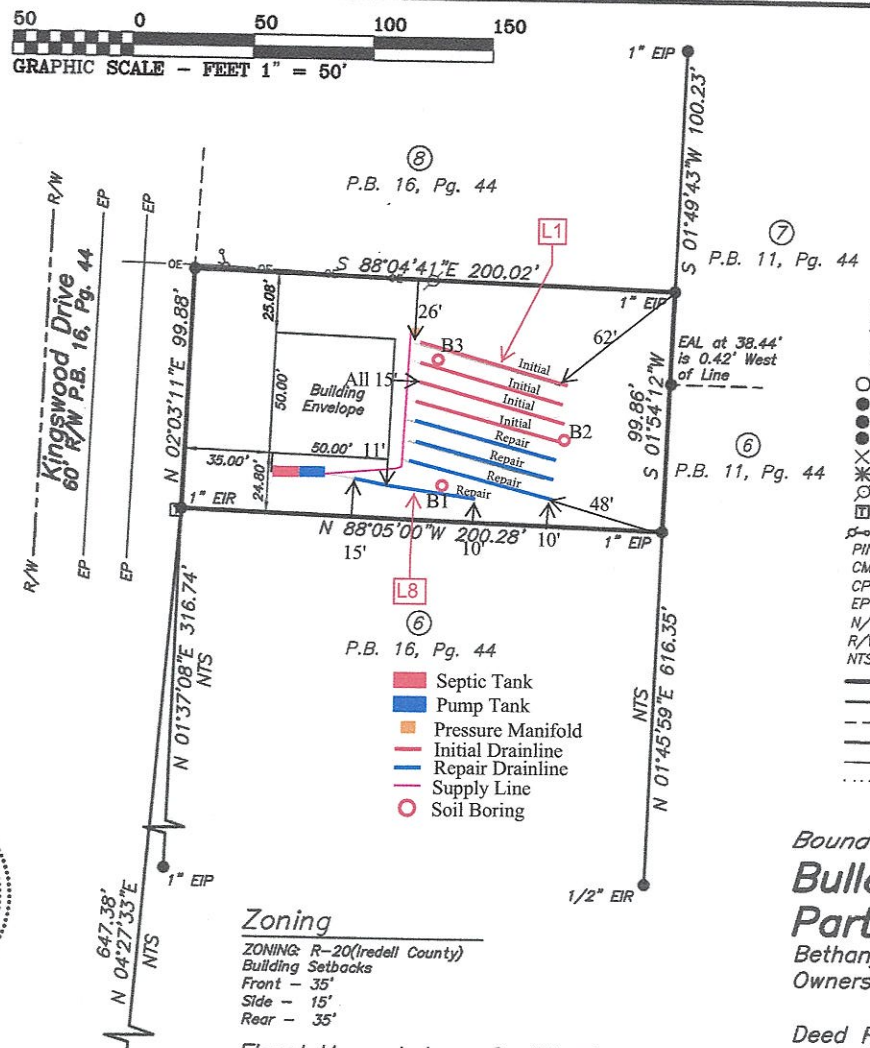
Witness this my original signature, registration number and seal this 11th day of May, 2021 A.D.

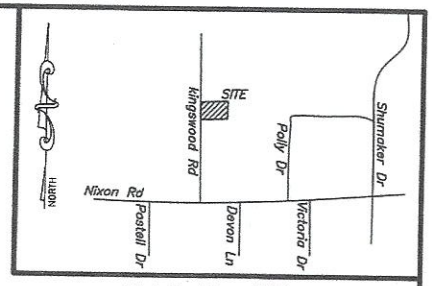
Ted M. Benbow NC PLS L-3175
Firm License # C-1588

NORTH CAROLINA PROFESSIONAL SEAL L-3175 LAND SURVEYOR TED M. BENBOW

TED BENBOW Land Surveying
Proudly Surveying Iredell County
Since 1989
630 SIGNAL HILL DRIVE EXT., STATESVILLE, NC 28625
PHONE (704) 878-9661
www.boundarydevelopment.com







Vicinity Map, NTS

Legend

CAPS ON MONUMENTS SET CONTAIN THE SURVEYORS NAME AND LICENSE NUMBER.

- IRS ..... 1/2" IRON ROD SET WITH YELLOW CAP
- EIP ..... EXISTING IRON PIPE AS SHOWN
- EIR ..... EXISTING IRON ROD AS SHOWN
- EAI ..... EXISTING ANGLE IRON
- CP ..... COMPUTED POINT
- PK ..... PK NAIL SET
- ..... UTILITY POLE
- ..... TELEPHONE PEDESTAL
- ..... LIGHT POLE
- PIN ..... PARCEL IDENTIFICATION NUMBER
- CMP ..... CORRUGATED METAL PIPE
- CPP ..... CORRUGATED PLASTIC PIPE
- EP ..... EDGE OF PAVEMENT
- N/F ..... NOW OR FORMERLY
- R/W ..... RIGHT OF WAY
- NTS ..... NOT TO SCALE
- LINE SURVEYED
- TIE LINE SURVEYED
- LINE NOT SURVEYED
- RIGHT-OF-WAY LINE
- OE OVERHEAD UTILITY LINE
- SETBACK LINES

Zoning

ZONING: R-20(Iredell County)
Building Setbacks
Front - 35'
Side - 15'
Rear - 35'

Flood Hazard Area Certificate

According to mapping provided by the Federal Emergency Management Agency and shown on the Digital Flood Insurance Rate Map (DFIRM) Panel 4746, Iredell County, North Carolina, effective date: 3/18/2008, the property shown hereon is not located within a special flood hazard area. The property is entirely within an area designated "Zone X - other areas". Areas determined to be outside the 0.2% annual chance floodplain: areas outside future conditions 1% annual chance floodplain.

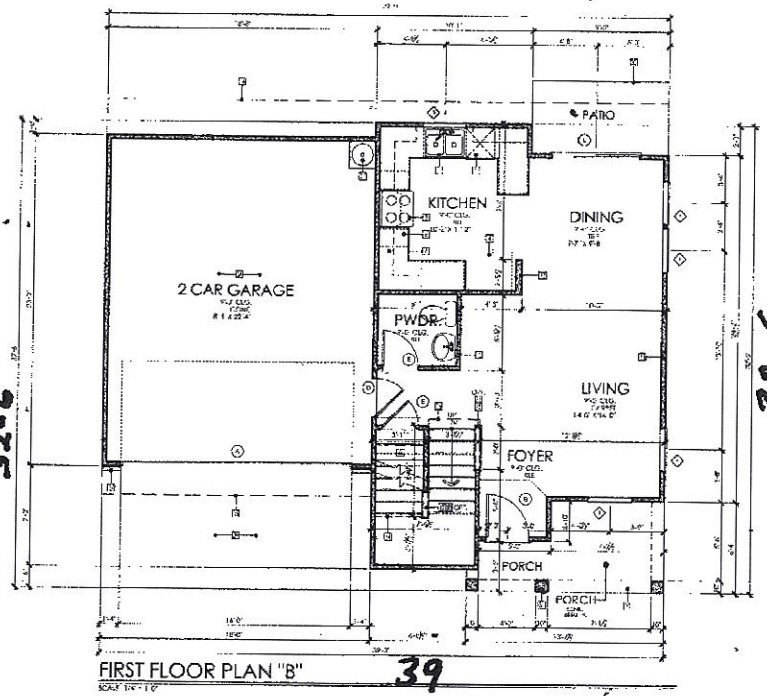
Boundary Survey For:

Buller River Development Partners, LLC

Bethany Township, Iredell County, NC
Owners of Record: Keith M. Norris and wife, Elizabeth S. Norris
Deed Reference: D.B. 742, Pg. 364
Plat Reference: P.B. 16, Pg. 44
PIN: 4746-27-6627
Job Number:2105110.DWG (2105110.CRD)
Field Work: 5-10-2021
Plat Date: 5-11-2021

BAB - 7-16-2021
Staff Review 8/13

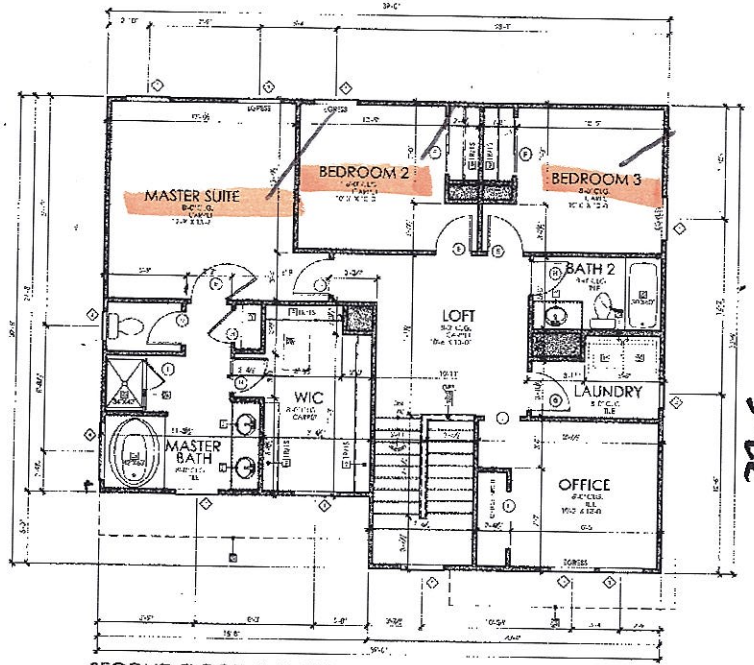
39



FIRST FLOOR PLAN "B"

39

39



SECOND FLOOR PLAN "B"

FLOOR PLAN NOTES

1	DOUBLE BASIN SINK W/GARBAGE DISPOSAL, VERIFY SINK W/OWNER
2	DISHWASHER PROVIDE SUPPLY & WASTE AS PER MFRS SPECS
3	REFRIGERATOR W/ ICE MAKER - VERIFY W/OWNER
4	NOT USED
5	4'-0" LOFT
6	NOT USED
7	SHEET AND FOIL PER PLAN
8	NOT USED
9	5'-0" X 2'-6" FIBERGLASS SHOWER
10	LINE OF FLOOR ABOVE
11	LINE OF WALL BELOW
12	UTILITY SINK
13	5'-0" X 2'-6" FIBERGLASS SHOWER W/ GLASS DOOR
14	DROP PANEL w/ TRAY
15	LINEN W/ (4) SHELVES
16	22" X 30" ATTIC ACCESS
17	MOTOR COURT SLOPE AWAY FROM STR. (SEE PLOT PLAN)
18	COUNTER TOP - SLOPE AWAY FROM STRUCTURE
19	UTILITY W/ SHELVES (SEE SPECIFICATION)
20	LINEN W/ (3) SHELVES
21	GUARDRAIL - 36" ABOVE FINISHED WALKING SURFACE
22	GARAGE SLAB - SLOPE TO STRUCTURE
23	4'-0" X 6'-0" ATTIC ACCESS
24	SCREENED PORCH - ALUMINUM AND MESH W/ (1) DOOR
25	5'-0" X 2'-6" FIBERGLASS SHOWER

DOOR SCHEDULE

MARK	WIDTH	HEIGHT	QUANTITY	REMARK
FRONT DOOR				
A	16'-0"	7'-0"	1	NON INSULATED STEEL GARAGE DOOR
B	3'-0"	6'-8"	1	UNDER DECK W/ 1/2" TEMP. IN WINDOW
C	5'-0"	6'-8"	1	SLIDING GLASS DOOR
D	2'-6"	6'-8"	1	SOLID CORE PASSAGE DOOR
E	2'-6"	6'-8"	1	HOLLOW CORE PASSAGE DOOR
F	8'-0"	6'-8"	3	HOLLOW CORE BYPASS DOOR
G	2'-6"	6'-8"	1	HOLLOW CORE PASSAGE DOOR
H	2'-6"	6'-8"	4	HOLLOW CORE PASSAGE DOOR
I	2'-8"		1	TEMP. GLASS SHOWER DOOR

DRYWALL WRAPPED OPENING SCHEDULE

MARK	WIDTH	HEIGHT	QUANTITY	REMARK
OFFICE, ENTRANCE AND OFFICE ARCH'S				
1	3'-0"	6'-8"	1	OFFICE ENTRANCE
2	4'-0"	6'-8"	1	OFFICE FAMILIE

WINDOW SCHEDULE

MARK	WIDTH	HEIGHT	QUANTITY	REMARK
WINDOW SCHEDULE				
1	3'-0"	5'-0"	2	SINGLE HUNG - LOW-E GLASS
2	3'-0"	3'-0"	2	SINGLE HUNG
3	5'-0"	3'-0"	3	SINGLE HUNG
4	4'-0"	4'-0"	1	RADIUS GLASS - TEMPERED

AREA CALCULATION

FIRST FLOOR (GROSS)	61'93
SECOND FLOOR (GROSS)	1690'00
TOTAL GROSS LIVING AREA	2502'73
PORCH	75'43
GARAGE	676'24

CHARLOTTE, NC

REVISIONS

FLOOR PLANS

BEDFORD
ELEVATION 'B'

CORNERSTONE III PROPERTIES
4509 Faith Church Road
Indian Trail, NC 28079

SHEET NO. A1-2.0

DATE 03.13.17

PLOTTED: May 15, 2017 / 10:10 / I:\LOTS\9 CD\06 11 17.DWG