Manf - 2024 - 44539
~~BLPR~~ -

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 322804

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

PIN # 4761 --45 --2843

APPLICANT/OWNER: Brooke & Joshua Bjornson APPLICANT ADDRESS: 1098 Bethesda Rd Statesville NC 28677

SITE ADDRESS: 1098 Bethesda Rd Statesville NC 28677 PHONE: ALT. PHONE

SITE DIRECTIONS: Ostwalt Amity Rd Bethesda Rd SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Mary Francis Deaton Mallory SECTION: — LOT # 4 LOT AREA 1.282 DESIGN FLOW: 480 L.T.A.R.: 30

Septic Tank 1000 (gal)	STB Infiltrator	Date	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☐ Residence	No. Bedrooms 4		Water Supply
Pump Tank 1000 (gal)	PT Infiltrator	Date	System Description: PM - 25% Reduction				☐ Business	No. Persons 8		☐ Private
Pump Make	Model	Serial #	Repair System Description: CP - PPBDS - 50% Reduction				☐ Other	No. Employees		☒ Public
# Nitrification Fields 1	# Lines 5	Linear Ft: 400	Maintenance Agreement Required:	☐ YES	☐ NO		☒ Slab	☐ Crawl Space		☐ Community
Trench Width 36in	Trench Bottom Depth ~~(Invert)~~ 30in	Gravel Depth —		☐ GRAVITY	☐ PRESSURE		☐ Basement w/ plumbing		☐ Basement w/o plumbing	

Comments / Conditions:

* See attached Site plan with Diagram plan 4 Bedroom Septic must be installed #

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:

Soil & Forestry Services of the Carolinas PA

LSS # 1231 Dated Oct 22nd, 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.

Tanks } SH
Lines } 10/10/24

- PM to be 10' off property line, remove panels & add to other end to meet 10' setback.
- Remove water line & install >10' from all parts of septic.

PH
PM } 12/10/24 - SH
Alarm

* Needs electrical

ELECTRICAL

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 mos.

Owner / Applicant Signature: Brooke B Date: 1-24-2022 Installed by: SNS Site Solutions

IMPROVEMENT PERMIT by: Benjamin A Boles Date: 12-1-2021 OPERATION PERMIT by: Sarah Williams Date: 1/29/25

AUTHORIZATION TO CONSTRUCT by: Benjamin A Boles Date: 2/29/2024 Existing System Inspected by: Date:

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

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

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

MAnt- 2024-44539 OSWP-2023-41395

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 322804

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

PIN # 4761 --45 --2843

APPLICANT/OWNER: Brooke & Joshua Bjoernson APPLICANT ADDRESS: 1098 Bethesda Rd Statesville NC 28677

SITE ADDRESS: 1098 Bethesda Rd Statesville NC 28677 PHONE: ALT. PHONE

SITE DIRECTIONS: Ostwalt Amity Rd Bethesda Rd SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Mary Francis Deaton Mallory SECTION: LOT # 4 LOT AREA: 1.28Z DESIGN FLOW: 480 L.T.A.R.: 30

Septic Tank	1000	(gal)	STB	Date	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☐ Residence	No. Bedrooms	4	Water Supply
Pump Tank	1000	(gal)	PT	Date	System Description: PM-25% Reduction				☐ Business	No. Persons	8	☐ Private
Pump Make		Model		Serial #	Repair System Description: CP-PPBPS-50% Reduction				☐ Other	No. Employees		☒ Public
# Nitrification Fields	1	# Lines	5	Linear Ft: 400	Maintenance Agreement Required:	☐ YES	☐ NO		☒ Slab	☐ Crawl Space		☐ Community
Trench Width	36in	Trench Bottom Depth(~~inside~~)	30in	Gravel Depth	—	☐ GRAVITY	☐ PRESSURE		☐ Basement w/plumbing			☐ Basement w/o plumbing

Comments / Conditions:

*See attached Site plan with floor plan 4 Bedroom Septic must be installed #

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:

Soil & Forestry Services of the Carolinas PA

LSS # 1231 Dated Oct 22nd, 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.

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: Brooke B Date: 1-24-2022 Installed by: SNS Site Solutions

IMPROVEMENT PERMIT by: Benjamin A Boles Date: 12-1-2021 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Benjamin A Boles Date: 2/29/2024 Existing System Inspected by: Date:

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

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

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

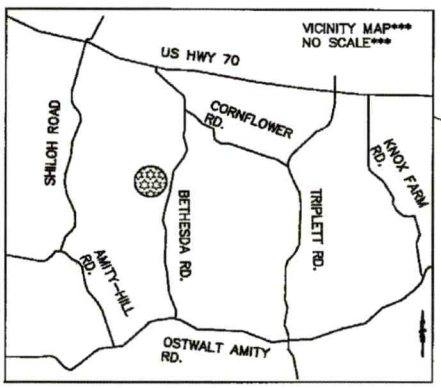
DAS DON ALLEN & ASSOCIATES, P.A.
"Since 1971"
Commercial * Residential * Mortgage Surveys * Multi-Family
Construction Staking * Subdivision Design * Topographical
131 Crosslake Park Drive – Suite 102 * Mooresville * NC * 28117
(704) 664-7029 (704) 664-8041 Fax

I, certify that this map was drawn under my supervision from an actual survey made under my supervision recorded in deed book 3016, page 2010, and/or plat book 69, page 51, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Carolina Chapter 89C.

my hand and seal on the 8, day of FEBRUARY, A.D. 20 24.

WILLIAM M. ALLEN, PLS

NORTH CAROLINA PROFESSIONAL SEAL L-3499 LAND SURVEYOR WILLIAM M. ALLEN



SEPTIC KEY:
B = BLUE
P = PINK
O = ORANGE
Y = YELLOW
R = RED
B# = BORE HOLE #

LEGEND
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
CP = COMPUTED POINT

0' 30' 60' 100'
SCALE IN FEET

PLOT PLAN SURVEY

OF
1098 BETHESDA ROAD
LOT 4 OF MARY FRANCES DEATON MCNEELY SUBD.
CHAMBERSBURG TWSP., IREDELL CO., N.C.

SCALE 1" = 60'
ACQUIRED BY: AMANDA & DAVID JOHNSON

NOTES
1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) OVERHEAD POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.
5) SETBACKS SHOWN PER PLAT (PB.69 PG.51)

FIELD BOOK: –
FILE: MARY FRANCES DEATON MCN.
DC FILE:
TAX MAP NO: 4761452843

1098 Bethesda Rd

Mary Frances Deaton Mcfeely Lot #4

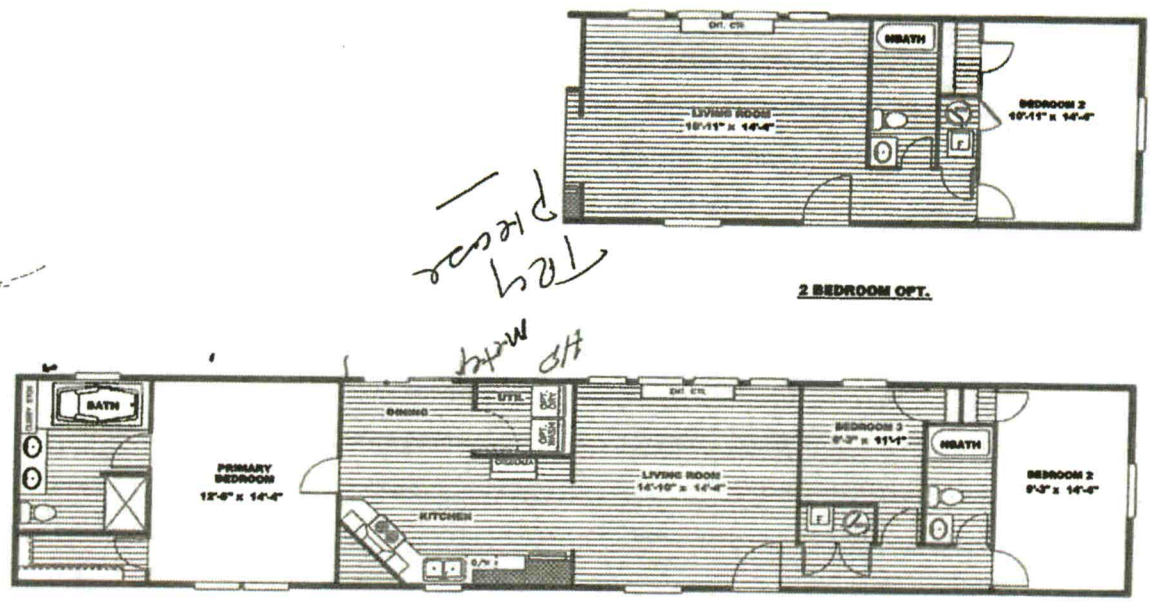
Our site is currently undergoing some changes, please contact your CSM with any questions.

Oxford

Opening doors to a better life.

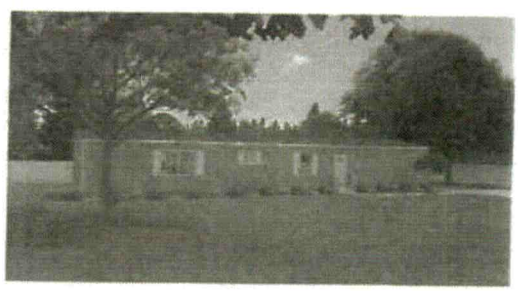
THE ANNIVERSARY PLUS - 29ANN16763PH

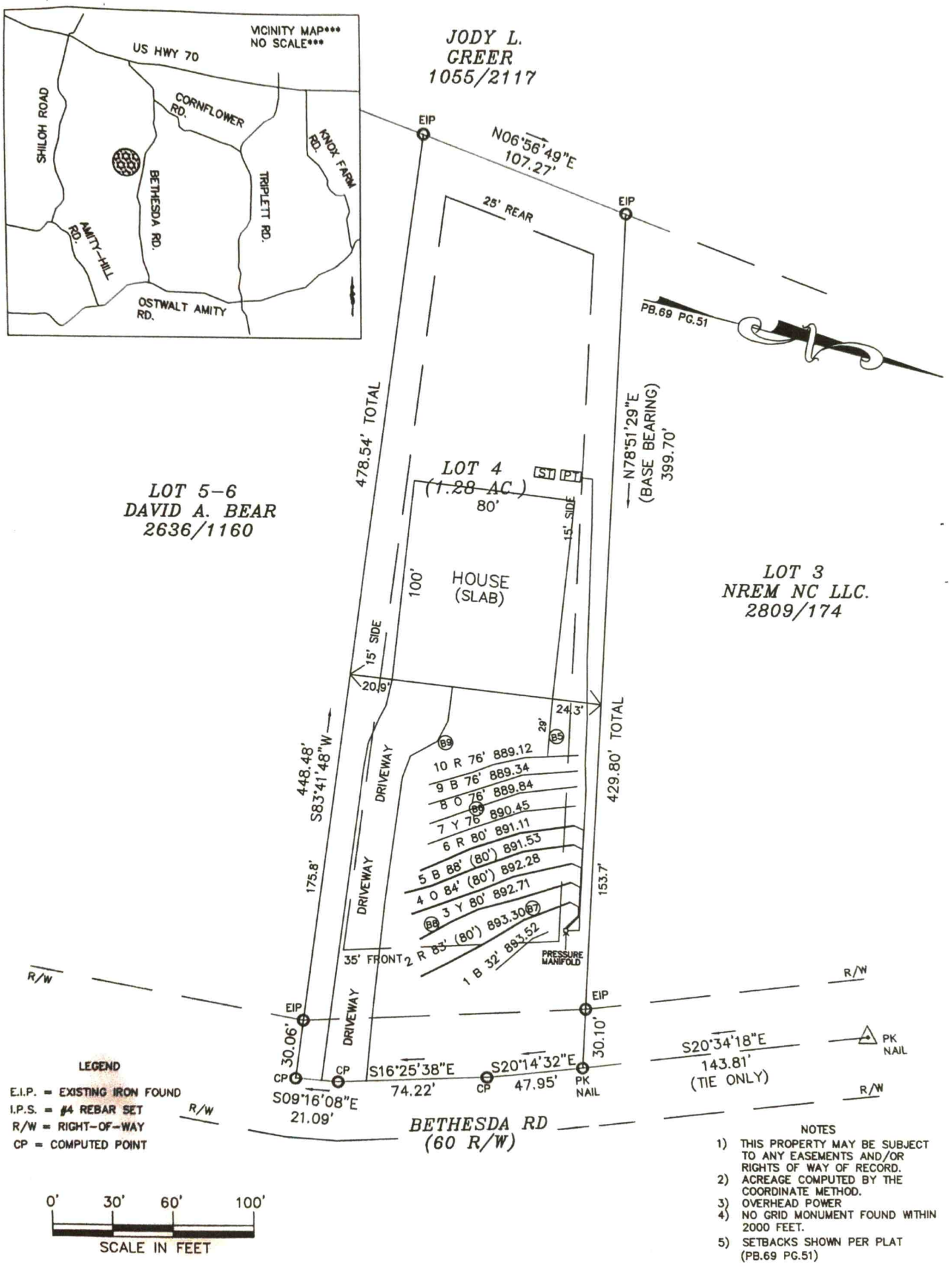
27949



Plan Details

Bedrooms	3
Bathrooms	2
Sq Feet	1140
Width	16
Depth	76





LEGEND

E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
CP = COMPUTED POINT

0' 30' 60' 100'
SCALE IN FEET

NOTES

1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) OVERHEAD POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.
5) SETBACKS SHOWN PER PLAT (PB.69 PG.51)

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 21-0087
October 22nd, 2021

Brooke & Joshua Bjornson
Attn: *Brook Bjornson*
Email: b-bjornson@outlook.com

RE: Soil & Site Evaluation for a 4 Bedroom Residence on Lot 4 Mary Francis Deaton McNeely Subdivision, 1.282 ac Parcel, PIN# 4761452843, 1098 Bethesda Road, Statesville, NC 28677.

Brook & Joshua:

At your request Soil & Forestry Services of the Carolinas (S&FS) has performed soil/site evaluations on parcel noted above. The Lot size is noted on the attached survey map & soil evaluation form. The purpose of our work was to identify soil areas with potential to support subsurface wastewater disposal systems and provide design details for Session Law submittal to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was mostly wooded. Topography within the evaluated area was gentle slope near the house site and proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Don Allen & Associates. The client provided an Autocad File of a survey as a basemap. The proposed septic layout was located via survey and used to produce the attached *Site Plan*. The proposed house is for a slab foundation and should be survey located prior to digging footings.

Methodology

We evaluated soil areas through the use of hand auger borings. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with nine hand augers on the property flagged and located via GPS. Five of the nine borings are located in the proposed septic layout. Soil suitability was determined by referencing 15A NCAC 18A.1900 "Laws and Rules for Sewage Treatment and Disposal Systems". *Soil & Site Evaluation Forms* were utilized to record the soil morphological data for each pit. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were located via survey. Detailed system & repair information is summarized in the following paragraph for this Lot. Public water is available at the site.

1098 Bethesda Road (*See Attached Design*)
The septic layout for this lot (8 & 9' centers) yielded a total of 751 linear feet of line. The primary system is proposed as 400 linear feet of Accepted (25% Reduction) drainfield with pressure manifold distribution. Trench depth (LOW SIDE) is specified at 30 inches. The repair system is proposed as 267 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. Trench depth (LOW SIDE) is specified at 30 inches. There is 336 linear feet available for repair.

Session Law Requirements

An LSS Evaluation may be submitted in conjunction with a complete application to the LHD. The application shall include all information described in 15A NCAC 18A .1937(d) and be accompanied by a signed and dated statement from the applicant (owner or owner's legal representative) that reads as follows:

"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).".

Owner Date

Print Name Brooke Bjornson
Signature Brooke B 11/2/2021

The LSS Evaluation shall include a statement bearing the LSS seal and signature that reads as follows:

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

Disclaimer
This report reflects the findings of S&FS, PA. *This LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c).* Any site modifications that impact the proposed septic areas on 1098 Bethesda Road, Statesville, NC 28677 may nullify this design. System design requirements and site requirements shall be adhered to for installation and Operations Permits to be issued by the local Health Department. If you have questions regarding these requirements a Pre-Construction meeting should be scheduled to discuss. Please contact S&FS if you have any questions regarding this report or the attached information. S&FS also offers septic system inspection, wetland delineation and forestry services.

Sincerely,

S. Ashley Rollans, LSS
Attachment: *Septic Design*

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for an Accepted (25% reduction) Septic System with Pressure Manifold distribution for a 4 bedroom single family residence at 1098 Bethesda Rd Lot 4, (PIN #:4761452843), Statesville NC, 28677.

Contents: **Page**

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

Design Information
- Design Specifications---------- 2-3
- Layout Specifications---------- 4
- System Tapsheet---------- 5
- Pressure Manifold Diagram---------- 6

Site Plan/System Plan---------- 7

Calculations---------- 8

Profile Descriptions---------- 9-10

Zoning Permit & Receipt---------- 11-13

Application---------- 14-15

Agent Authorization Form---------- 16

Green Sheet---------- 17

Subdivision Plat---------- 18

October 22, 2021
Project No. 21-0087
Design By: Soil & Forestry Services of the Carolinas, PA

INFORMATION FOR THE INSTALLER:

- The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.
- Tanks shall be approved by DHHS, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate 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.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Pumptank riser should be 6" above grade, control panel should be 12" above grade.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as an Accepted 25% reduction installation w/Pressure Manifold.
- Repair is specified as a PPBPS installation with Low Pressure Distribution.
- Rake trench walls, lime sidewalls, install trenches 36" wide and have no more than 1/4" fall in 10 feet.

PRESSURE MANIFOLD SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	Brooke & Joshua Bjornson
Address:	1098 Bethesda Rd Statesville, NC 28677
Phone:	715.553.0679
County:	Iredell
Location:	1098 Bethesda Rd Statesville, NC 28677
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	480 gpd
System Flow:	35.55

Design Specifications

Drainfield Size:	400
Loading Rate:	0.3
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Trench Depth:	30 in. Repair Trench Depth 30 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	239
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	41.59
Dosing Volume:	182.84
Supply Manifold:	4 in. SCH 80 PVC
Supply Manifold Length:	4 ft. (minimum)
Supply Manifold Volume:	N/A
Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	7.24
Elevation Head:	20.00
Total Dynamic Head:	33.63
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 Soil & Forestry Services of the Carolinas, PA.

1098 Bethesda Rd
PRESSURE MANIFOLD DESIGN

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.3
TOTAL AREA TRENCH BOTTOM:	1200
TOTAL LATERAL LENGTH:	400
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	400
SUPPLY LINE LENGTH:	239
TOTAL DYNAMIC HEAD:	33.63
MANIFOLD SIZE:	4 in.SCH 80 PVC
DOSING VOLUME:	182.84
PUMP TANK DRAW DOWN*:	8.7
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	1000

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

Layout Specifications - 1098 Bethesda Rd

Project #: 21-0087

LAYOUT FOR 4 BEDROOM HOME

October 22, 2021

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
HOUSE					887.56		
PUMP TANK					878.34		
INSTR. 1							
1	BLUE				893.52	32	32
2	***RED***				***893.30***	***83***	***80***
3	***YELLOW***				***892.71***	***80***	***80***
4	***ORANGE***				***892.28***	***84***	***80***
5	***BLUE***				***891.53***	***88***	***80***
6	***RED***				***891.11***	***80***	***80***
7	YELLOW				890.45	76	76
8	ORANGE				889.84	76	76
9	BLUE				889.34	76	76
10	RED				889.12	76	76
					Total	751	736

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***400***	***0.300***	***ACCEPT.***	***0.300***	***25% RED***	***PRESSURE MANIFOLD***
Repair	336	0.300	MOD. CONV.	0.300	PPBPS	LOW PRESSURE

Notes: **All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**Nitrification lines were located by survey.

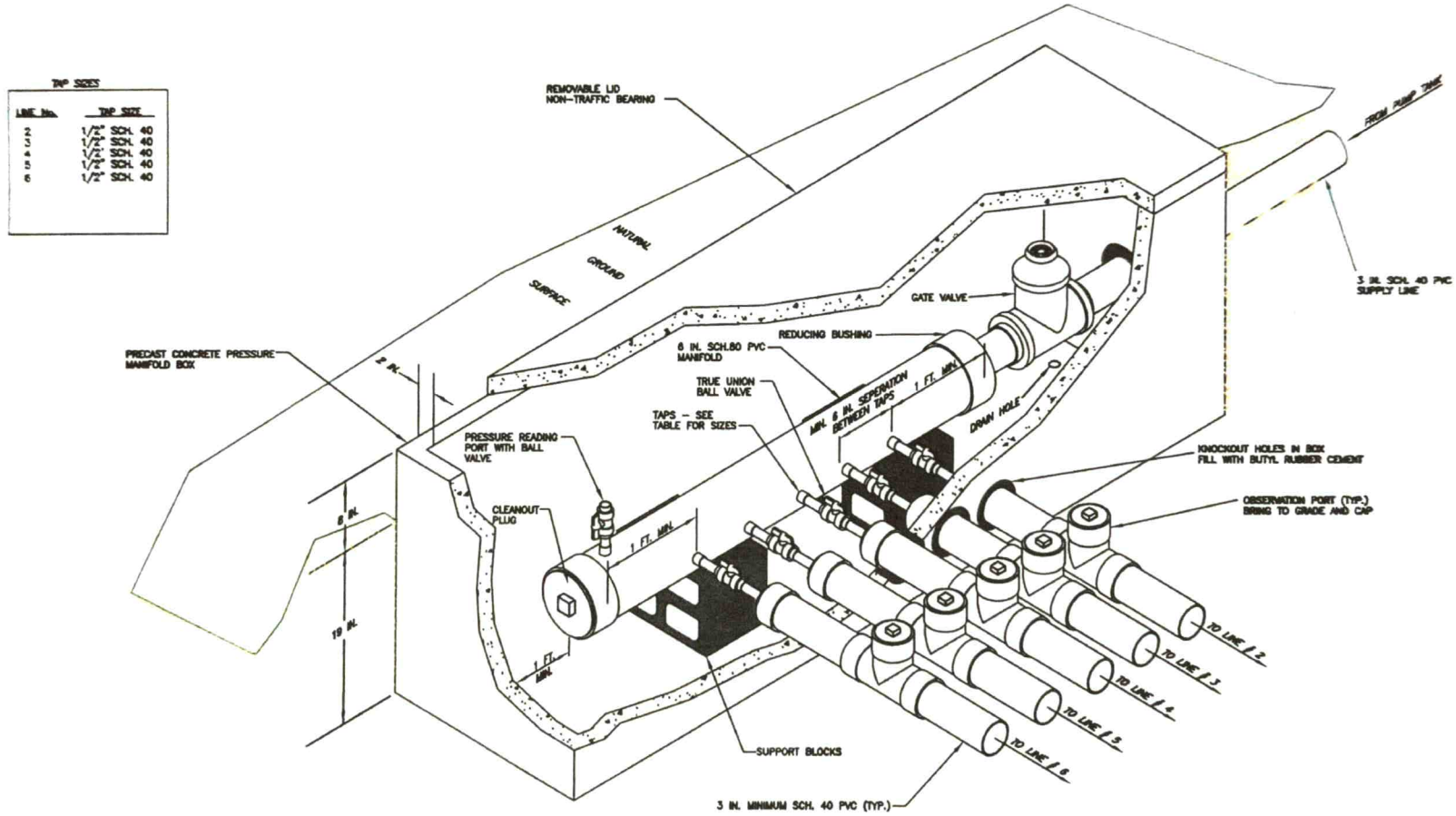
PRESSURE MANIFOLD TAPSHEET - 1098 Bethesda Road

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/Tap	Trench Area	Line LTAR
2	***RED***	***893.30***	80	SCH 40 1/2	**7.11**	240	0.15
3	***YELLOW***	***892.71***	80	SCH 40 1/2	**7.11**	240	0.15
4	***ORANGE***	***892.28***	80	SCH 40 1/2	**7.11**	240	0.15
5	***BLUE***	***891.53***	80	SCH 40 1/2	**7.11**	240	0.15
6	***RED***	***891.11***	80	SCH 40 1/2	**7.11**	240	0.15
	total	**feet =**	**400**	**gal/min =**	**35.55**		

Des. Flow	**480**
Pump Run=	**5.14**
soil LTAR	**0.3**
LTAR +5%	**0.315**
LTAR with ACCEPTED	**0.4**
LTAR with ACCEPTED + 5%	**0.42**

PRESSURE MANIFOLD DETAILS
FOR
1098 BETHESDA ROAD SEPTIC SYSTEM



CALCULATIONS

Location	1098 Bethesda Rd Statesville NC 28677	
Project Number	21-0087	
Lot No:	4	
No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.300	$^{gpd/ft^2}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	239	ft.
Supply Line Volume	41.586	gal.
Required Feet of Line	400	ft.
Amount of Line from Layout	400	ft.
Gallons per Minute	35.55	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	261.2	gal.
Dosing Volume	182.84	gal.
	Note: Dosing Volume based on 70% of lateral line volume	
Tank Draw Down	8.7	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.14	minutes
Elevation Head	20	ft.
Pressure Head	2	ft.
Friction Factor	3.03	ft./100 ft. *(From the interpolater.)*
Friction Head	7.24	ft.
Total Dynamic Head (+15%)	33.63	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

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

Sheet 1 of 2
PROPERTY ID #: 4761452643
COUNTY: Iredell

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

OWNER: Brooke J Joshua Bjornson
ADDRESS: 1098 Bethesda Rd, Statesville NC 28677
PROPOSED FACILITY: 4 BR
LOCATION OF SITE: 1098 Bethesda Rd, Statesville NC 28677
APPLICATION DATE
DATE EVALUATED: 7/2021
PROPOSED DESIGN FLOW (.1949): 480 gpd
PROPERTY SIZE: 1.28 AC
PROPERTY RECORDED: Yes

WATER SUPPLY: ☐ Private ☑ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 1	L/T 9%	0-4	BSL Gr	Fr SS SP SE VP	FEW SMP	48"	—	—	PS 0.3
		4-12	RBCL wfsbk	Fr SS SP SE VP					
		12-48	RC wmsbk/Abk	Fr SS SP					
B 2	L/T 9%	0-6	BSL Gr	Fr SS SP SE VP		48"	—	—	PS 0.3 All Grade
		6-15	RBCL wfsbk	Fr SS SP SE VP					
		15-48	RC wmsbk						
B 3	L/T 9%	0-4	BSL Gr	Fr SS SP SE VP	FEW SMP FEW CSE	48"	—	—	PS 0.3
		4-40	RC wmsbk	Fr SS SP					
		40-48	RBCL wmsbk	Fr SS SP					
B 4	L/T 9%	0-10	BSL Gr	Fr SS SP SE VP		48"	—	—	PS 0.3
		10-40	RC wmsbk	Fr SS SP					
		40-48	RBCL wmsbk	Fr SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Pressure Manifold/LPP	Pressure/Low Pressure
Site LTAR	0.3	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. Ashley Rollins
OTHER(S) PRESENT: Lorne Cook, Chad Wagner

COMMENTS:

Updated February 2014

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

PROPERTY ID #: Same
DATE OF EVALUATION: Same
COUNTY: Same

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	
B5	L/5%	0-5	BSL Gr	Fr SS SP SE XP	- Few SAP	48"	-	-	PS 0.3
		5-35	RC wmsbk	Fr SS SP					
		35-48	RBCL wf sbk	Fr SS SP	- Few to C SAP Inclu				
B6	L/5%	0-12	BSL Gr	Fr SS SP SE XP	- C SAP	48"	-	-	PS 0.3
		12-48	RBCL wf sbk	Fr SS SP					
B7	L/4-6%	0-12	BSL Gr	Fr SS SP SE XP		48"	-	-	PS 0.3-.325
		12-33	RBC wmsbk/sbk	Fr SS SP					
		33-48	RBCL wmsbk/sbk	Fr SS SP					
B8	L/4-6%	0-12	BSL Gr	Fr SS SP SE XP		48"	-	-	PS 0.3-.325
		12-44	RBC wmsbk	Fr SS SP					
		44-48	RBCL wmsbk	Fr SS SP					
B9	L/5%	0-9	BSL Gr	Fr SS SP SL XP		48"	-	-	PS 0.3-.325
		9-44	RBC wmsbk	Fr SS SP					
		44-48	RBCL wmsbk	Fr SS SP					

COMMENTS:

RECEIVED NOV 2 3 2021

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

AP- 322804 Paid $1,200.00

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
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: Brooke J Joshua Bjornson Address: 1098 Bethesda Rd, Statesville NC Zip: 28677
Applicant Email: b-bjornson@outlook.com Phone: 715-553-0679 Alt. Phone: _____
Owner Name: Same Address: Same Zip: Same
Owner Email: Same Phone: Same Alt. Phone: _____

Property Information:

Street Address: 1098 Bethesda Rd, Statesville NC 28677
Subdivision Name: Mary Frances Deaton McNeely Section/Phase: _____ Lot Number: 4
Driving Directions: Ostwalt Amity Rd, Bethesda Rd

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: 8
( ) 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 (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) 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: _____ 10/22/21
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

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.

I, Brooke & Joshua Bjornson, am the legal owner(s) of the property located at 1098 Bethesda Rd, Statesville NC 28677, identified as PIN (Parcel Identification Number) 4761452843, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) SFS/Ashley Rollins, _____, 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.

* _____ * 11/2/2021 _____ _____

Signature of Owner(s) Date Signature of Witness Date

Please return this signed form to the appropriate office:

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

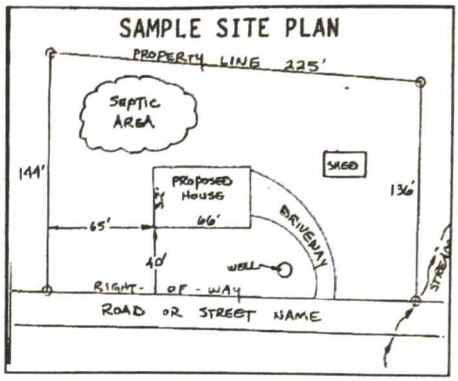
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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

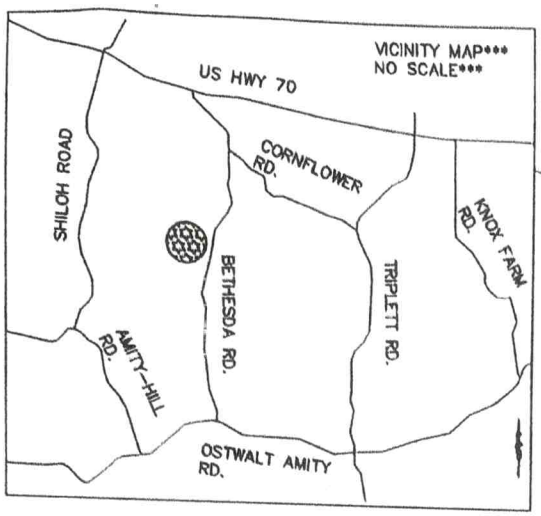
USE THIS SPACE TO DRAW YOUR SITE PLAN

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 Attached

Signature: [signature] **DATE** 10/22/21

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



JODY L. GREER 1055/2117

EIP

N06°56'49"E 107.27'

EIP

28' REAR

PB.69 PG.51

478.54' TOTAL

N78°51'29"E (BASE BEARING) 399.70'

LOT 5-6 DAVID A. BEAR 2636/1160

LOT 4 (1.28 AC.)

ST PT

80'

15' SIDE

100'

HOUSE (SLAB)

LOT 3 NREM NC LLC. 2809/174

15' SIDE

20.9'

24.3'

29'

448.48' S83°41'48"W

DRIVEWAY

10 R 76' 889.12
9 B 76' 889.34
8 O 76' 889.84
7 Y 76' 890.45
6 R 80' 891.11
5 B 88' (80') 891.53
4 O 84' (80') 892.28
3 Y 80' 892.71
2 R 83' (80') 893.30
1 B 32' 893.52

429.80' TOTAL

175.8'

153.7'

35' FRONT

PRESSURE MANIFOLD

R/W

EIP

EIP

R/W

30.06'

30.10'

DRIVEWAY

CP

CP

S16°25'38"E 74.22'

CP

S20°14'32"E 47.95'

PK NAIL

S20°34'18"E 143.81' (TIE ONLY)

PK NAIL

S09°16'08"E 21.09'

R/W

R/W

BETHESDA RD (60 R/W)

LEGEND

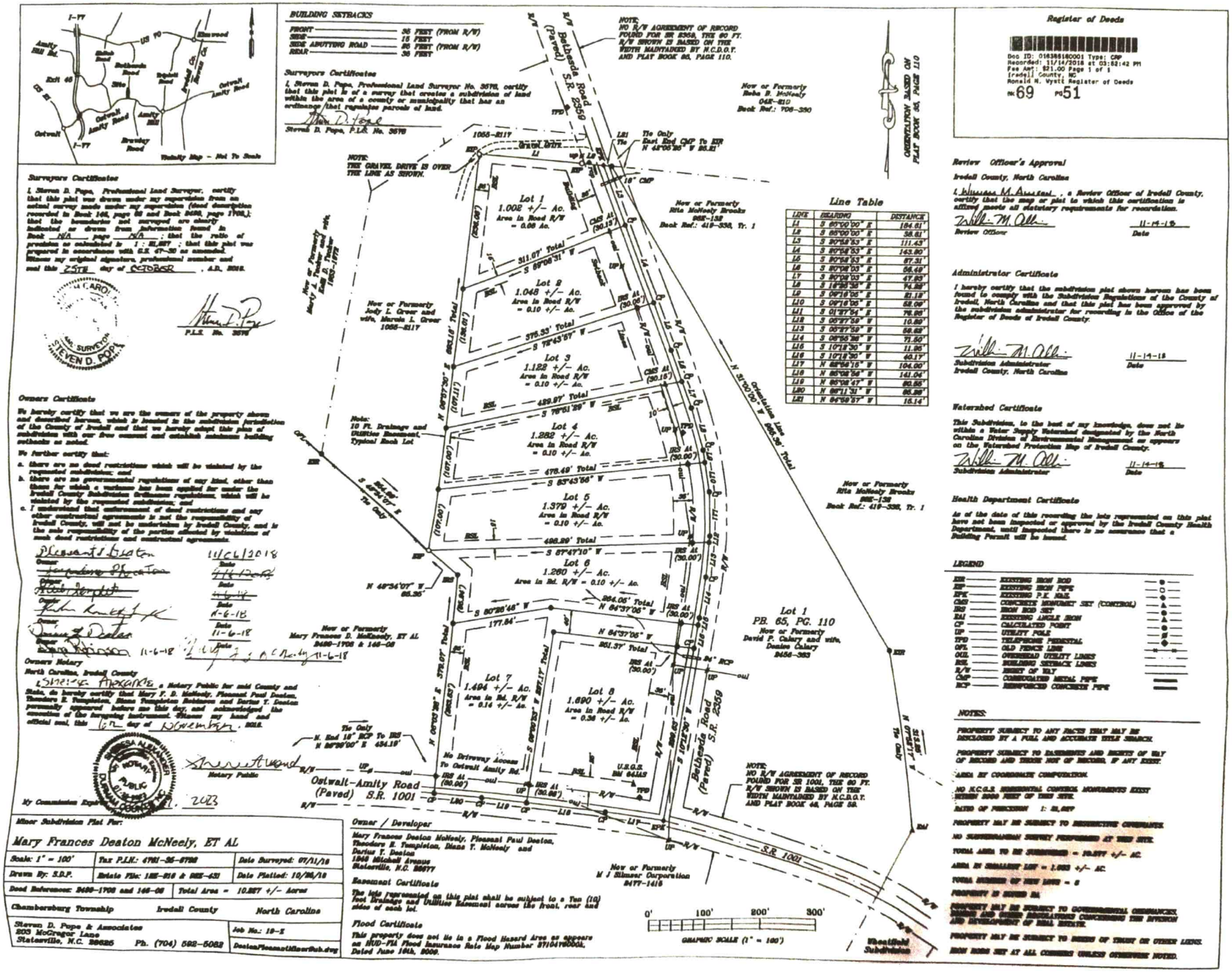
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
CP = COMPUTED POINT

0' 30' 60' 100'

SCALE IN FEET

NOTES

1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) OVERHEAD POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.
5) SETBACKS SHOWN PER PLAT (PB.69 PG.51)


Vicinity Map - Not To Scale
BUILDING SETBACKS
FRONT ——— 35 FEET (FROM R/W)
SIDE ——— 15 FEET
SIDE ABUTTING ROAD ——— 25 FEET (FROM R/W)
REAR ——— 35 FEET
Surveyors Certificates
I, Steven D. Pope, 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 1456, page 88 and Book 2488, page 1708); that the boundaries not surveyed are clearly indicated as drawn from information found in Book N/A, page N/A; that the ratio of precision as calculated is 1 : 10,827 ; that this plat was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, professional number and seal this 25TH day of OCTOBER , A.D., 2018.
Steven D. Pope
P.L.S. No. 3676
NOTE: THE GRAVEL DRIVE IS OVER THE LINE AS SHOWN.
NOTE: NO R/W AGREEMENT OF RECORD FOUND FOR SR 2359, THE 60 FT. R/W SHOWN IS BASED ON THE WIDTH MAINTAINED BY N.C.D.O.T. AND PLAT BOOK 65, PAGE 110.
OBSERVATION BASED ON PLAT BOOK 65, PAGE 110
Bethesda Road (Paved) S.R. 2359
Ostwalt-Amity Road (Paved) S.R. 1001
Lot 1 1.002 +/- Ac. Area in Road R/W = 0.08 Ac.
Lot 2 1.048 +/- Ac. Area in Road R/W = 0.10 +/- Ac.
Lot 3 1.122 +/- Ac. Area in Road R/W = 0.10 +/- Ac.
Lot 4 1.282 +/- Ac. Area in Road R/W = 0.10 +/- Ac.
Lot 5 1.379 +/- Ac. Area in Road R/W = 0.10 +/- Ac.
Lot 6 1.260 +/- Ac. Area in Rd. R/W = 0.10 +/- Ac.
Lot 7 1.494 +/- Ac. Area in Rd. R/W = 0.14 +/- Ac.
Lot 8 1.690 +/- Ac. Area in Road R/W = 0.36 +/- Ac.
Lot 1 PB. 65, PG. 110 Now or Formerly David P. Cahary and wife, Deanne Cahary 2456-353
Now or Formerly Mary Frances D. McNeely, ET AL 2488-1708 & 146-08
Now or Formerly Judy L. Grover and wife, Marcia L. Grover 1055-2117
Now or Formerly Rita McNeely Brooks 98E-138 Book Ref.: 419-338, Tr. 1
Now or Formerly Reba B. McNeely 048-210 Book Ref.: 709-350
Now or Formerly M J Skinner Corporation 2477-1418
Now or Formerly Mary L. Foster and wife, Ina B. Foster 1055-2117
Line Table
LINE | BEARING | DISTANCE
L1 | S 85°00'00" E | 184.61'
L2 | S 85°00'00" E | 58.61'
L3 | S 80°58'53" E | 111.43'
L4 | S 80°58'53" E | 143.90'
L5 | S 80°58'53" E | 87.31'
L6 | S 80°08'03" E | 58.49'
L7 | S 80°08'03" E | 47.83'
L8 | S 19°25'38" E | 74.39'
L9 | S 06°16'05" E | 81.18'
L10 | S 09°16'05" E | 58.00'
L11 | S 01°37'54" E | 76.85'
L12 | S 05°37'54" E | 10.89'
L13 | S 05°37'59" E | 68.62'
L14 | S 08°56'38" E | 71.50'
L15 | S 10°18'30" E | 11.95'
L16 | S 10°18'30" E | 40.17'
L17 | N 82°06'15" E | 104.00'
L18 | N 85°08'54" E | 141.04'
L19 | N 85°08'47" E | 80.65'
L20 | N 88°11'31" E | 86.89'
L21 | N 84°58'57" E | 16.14'
Register of Deeds
Doc ID: 016386160001 Type: CRP
Recorded: 11/14/2018 at 03:52:42 PM
Fee Amt: $21.00 Page 1 of 1
Iredell County, NC
Ronald M. Wyatt Register of Deeds
BK 69 PG 51
Review Officer's Approval
Iredell County, North Carolina
I, [illegible], a Review Officer of Iredell County, certify that the map or plat to which this certification is affixed meets all statutory requirements for recordation.
Review Officer 11-14-18 Date
Administrator Certificate
I hereby certify that the subdivision plat shown hereon has been found to comply with the Subdivision Regulations of the County of Iredell, North Carolina and that this plat has been approved by the subdivision administrator for recording in the Office of the Register of Deeds of Iredell County.
Subdivision Administrator Iredell County, North Carolina 11-14-18 Date
Watershed Certificate
This Subdivision, to the best of my knowledge, does not lie within a Water Supply Watershed designated by the North Carolina Division of Environmental Management, as appears on the Watershed Protection Map of Iredell County.
Subdivision Administrator 11-14-18 Date
Health Department Certificate
As of the date of this recording the lots represented on this plat have not been inspected or approved by the Iredell County Health Department, until inspected there is no assurance that a Building Permit will be issued.
Owners Certificate
We hereby certify that we are the owners of the property shown and described hereon, which is located in the subdivision jurisdiction of the County of Iredell and that we hereby adopt this plan of subdivision with our free consent and establish minimum building setbacks as noted.
We further certify that:
a. there are no deed restrictions which will be violated by the requested subdivision; and
b. there are no governmental regulations of any kind, other than those for which a variance has been applied for under the Iredell County Subdivision Ordinance regulations, which will be violated by the requested subdivision; and
c. I understand that enforcement of deed restrictions and any other contractual agreements is not the responsibility of Iredell County, will not be undertaken by Iredell County, and is the sole responsibility of the parties affected by violations of such deed restrictions and contractual agreements.
Owner 11/26/2018 Date
Owner Date
Owner Date
Owner 11-6-18 Date
Owner 11-6-18 Date
Owners Notary
North Carolina, Iredell County
I, [illegible], a Notary Public for said County and State, do hereby certify that Mary F. D. McNeely, Pleasant Paul Deaton, Theodore R. Templeton, Diana Templeton Robinson and Darius T. Deaton personally appeared before me this day, and acknowledged the execution of the foregoing instrument. Witness my hand and official seal, this 6th day of NOVEMBER, 2018.
Notary Public
My Commission Expires: [illegible], 2023
Owner / Developer
Mary Frances Deaton McNeely, Pleasant Paul Deaton, Theodore R. Templeton, Diana T. McNeely and Darius T. Deaton
1848 Mitchell Avenue
Statesville, N.C. 28677
Easement Certificate
The lots represented on this plat shall be subject to a Ten (10) foot Drainage and Utilities Easement across the front, rear and sides of each lot.
Flood Certificate
This property does not lie in a Flood Hazard Area as appears on HUD-FIA Flood Insurance Rate Map Number 3710478000H, Dated June 16th, 2008.
NOTES:
PROPERTY SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
PROPERTY SUBJECT TO EASEMENTS AND RIGHTS OF WAY OF RECORD AND THOSE NOT OF RECORD, IF ANY EXIST.
AREA BY COORDINATE COMPUTATION.
NO N.C.G.S. HORIZONTAL CONTROL MONUMENTS EXIST WITHIN 2000 FEET OF THIS SITE.
RATIO OF PRECISION 1: 10,827
PROPERTY MAY BE SUBJECT TO RESTRICTIVE COVENANTS.
NO SUBDIVISION SURVEY PERFORMED AT THIS SITE.
TOTAL AREA TO BE SUBDIVIDED = 10.277 +/- AC.
AREA IN SMALLEST LOT = 1.002 +/- AC.
TOTAL NUMBER OF NEW LOTS = 8
PROPERTY IS ZONED RA.
PROPERTY MAY BE SUBJECT TO GOVERNMENTAL ORDINANCES, RULES AND OTHER REGULATIONS CONCERNING THE DIVISION AND DEVELOPMENT OF REAL ESTATE.
PROPERTY MAY BE SUBJECT TO DEEDS OF TRUST OR OTHER LIENS.
IRON RODS SET AT ALL CORNERS UNLESS OTHERWISE NOTED.
LEGEND
IRF ——— EXISTING IRON ROD
IRP ——— EXISTING IRON PIPE
EPK ——— EXISTING P.K. NAIL
CMS ——— CONCRETE MONUMENT SET (CONTROL)
IRS ——— IRON ROD SET
EAI ——— EXISTING ANGLE IRON
CP ——— CALCULATED POINT
UP ——— UTILITY POLE
TPD ——— TELEPHONE PEDESTAL
OFL ——— OLD FENCE LINE
OHL ——— OVERHEAD UTILITY LINES
BSL ——— BUILDING SETBACK LINES
R/W ——— RIGHT OF WAY
CMP ——— CORRUGATED METAL PIPE
RCP ——— REINFORCED CONCRETE PIPE
Minor Subdivision Plat For:
Mary Frances Deaton McNeely, ET AL
Scale: 1" = 100' | Tax P.I.N.: 4761-26-6798 | Date Surveyed: 07/11/18
Drawn By: S.D.P. | Estate File: 18E-916 & 98E-431 | Date Platted: 10/25/18
Deed References: 2488-1708 & 146-08 | Total Area = 10.827 +/- Acres
Chambersburg Township | Iredell County | North Carolina
Steven D. Pope & Associates 203 McGregor Lane Statesville, N.C. 28625 Ph. (704) 592-5062
Job No.: 18-5
DeatonPleasantRiverSub.dwg
0' 100' 200' 300'
GRAPHIC SCALE (1" = 100')
Westfield Subdivision

IREDELL COUNTY · NC

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

APPLICATION NUMBER
322804
Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4761452843.000	1098 BETHESDA RD	Iredell County

Owner Information	Applicant Information
Name: BJORNSON JOSHUA+BROOKE	Name: BJORNSON JOSHUA+BROOKE
Address:	Address: 19021 Kanawha Dr
,	Cornelius , NC 28031
Phone:	Phone: (715)553-0679

Use Requested	Zone Code
Single Family Dwelling	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
1.282	35	35	15	15	N/A	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: 11/03/2021

Signature of Owner/Contractor

Permit Number	322804	TOTAL FEES:	$77.25