ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP323096

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

PIN # 4625 -87 -1015

APPLICANT/OWNER: Denise + Marty Weber
APPLICANT ADDRESS: 443 Preston Rd Mooresville NC 28117
SITE ADDRESS: 122 Brownstone Drive Mooresville NC 28117
PHONE:
ALT. PHONE
SITE DIRECTIONS: BSR @ Marshans Mill @ White House @ Ballston @ Brownstone on Left
SAP CONTROLLED: ☐ YES ☒ NO
SUBDIVISION: The Point
SECTION 4 LOT # 449 LOT AREA: 1.081 AC
DESIGN FLOW: 600 L.T.A.R. .30

Septic Tank 1500 (gal) STB 1000 964 Date 6/21/23
Pump Tank 1500 (gal) PT 353 Date 7/2/23
Pump Make Liberty Model 52 Serial # 220V
Nitrification Fields 1 # Lines 7 Linear Ft. 520
Trench Width 36in Trench Bottom Depth 24in Gravel Depth —

☒ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI
System Description: PM - 25% Reduction
Repair System Description: LPPBBS - 50% Reduction
Maintenance Agreement Required: ☐ YES ☒ NO
☐ GRAVITY ☒ PRESSURE

☒ Residence No. Bedrooms 5
☐ Business No. Persons 10
☐ Other No. Employees
☐ Slab ☐ Crawl Space
☒ Basement w/ plumbing ☐ Basement w/o plumbing

Water Supply: ☐ Private ☒ Public ☐ Community

Comments / Conditions: * Requires Grinder Pump with Settling Tank

OK TO NOT use Settling Tank see email

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 McDowell

LSS # 1218 Dated Nov 17, 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.

Check supply line under drive ✓

Still needs correct manifold & correct plumbing - reset pressure, etc.

Tanks
Lines 1-6 CW 8/24/23
PM

Checked PM line.
+ supply line under drive
8/25/23 HS

Permit can be suspended or revoked if any false information is supplied toward securing the permit, / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

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

Owner / Applicant Signature: Date: 12-6-2021
Installed by: BW Christenberry
IMPROVEMENT PERMIT by: Date: 12-1-2021
OPERATION PERMIT by: Date: 12/15/23
AUTHORIZATION TO CONSTRUCT by: Date: 12-1-2021
Existing System Inspected by: Date:

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

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP323096

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

PIN # 4625 -87-1015

APPLICANT/OWNER: Denise + Marty Weber APPLICANT ADDRESS: 443 Preston Rd Mooresville NC 28117

SITE ADDRESS: 122 Brownstone Drive Mooresville NC 28117 PHONE: ALT. PHONE

SITE DIRECTIONS: BSR @ Maoshans Mill @ White House @ Bailey Jan @ Brownstone on left SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: The Point SECTION: 4 LOT # 449 LOT AREA: 1.081 AC DESIGN FLOW: 600 L.T.A.R.: .30

Septic Tank 1500 (gal) STB Date

Pump Tank 1500 (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 7 Linear Ft: 520

Trench Width 36in Trench Bottom Depth 24in Gravel Depth –

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

System Description: PM - 25% Reduction

Repair System Description: LP PPBPS - 50% Reduction

Maintenance Agreement Required: ☐ YES ☒ NO

☐ GRAVITY ☒ PRESSURE

☒ Residence No. Bedrooms 5

☐ Business No. Persons 10

☐ Other No. Employees

☐ Slab ☐ Crawl Space

☒ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☐ Private ☒ Public ☐ Community

Comments / Conditions: * Requires Grinder Pump with Settling Tank

OK TO NOT USE Settling tank see email

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

LSS # 1218 Dated Nov 17, 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.

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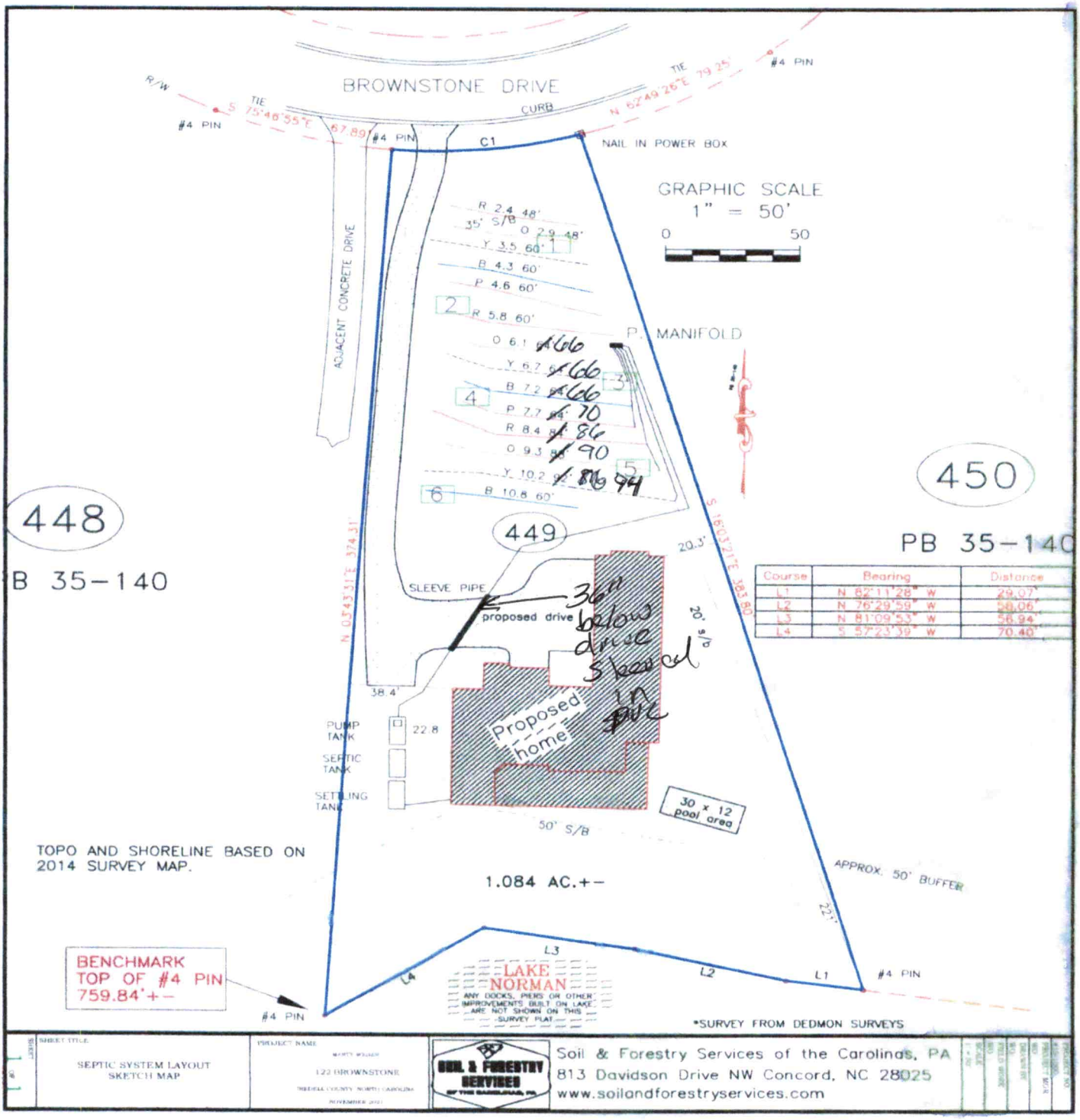
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☒ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☒ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Date: 12-6-2021 Installed by:

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

AUTHORIZATION TO CONSTRUCT by: Benjamin A Bailey Date: 12-1-2021 Existing System Inspected by: Date:

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



Course	Bearing	Distance
L1	N 82°11'28" W	29.07'
L2	N 76°29'59" W	58.06'
L3	N 81°09'53" W	56.94'
L4	S 57°23'39" W	70.40'

SHEET TITLE
SEPTIC SYSTEM LAYOUT SKETCH MAP

PROJECT NAME
122 BROWNSTONE

SOIL & FORESTRY SERVICES

Soil & Forestry Services of the Carolinas, PA
813 Davidson Drive NW Concord, NC 28025
www.soilandforestryservices.com

PROPERTY ID #: 4625871015
COUNTY: Iredell

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

OWNER: Marty Weber
ADDRESS:
PROPOSED FACILITY: 600 GPD
LOCATION OF SITE: 122 Brownstone Drive
WATER SUPPLY: [ ] Private [ ] Well [ ] Spring [X] Other
EVALUATION METHOD: [ ] Auger Boring [X] Pit [ ] Cut

APPLICATION DATE:
DATE EVALUATED: 09-23-2021
PROPERTY SIZE: 1.08
PROPERTY RECORDED:
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 SAPR CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	4%	0-6	YB SC WF Gr	Fr SS SP	N/A	60	N/A		.3
		6-38	BR C MMA	Fi SS SP					
		38-60	BR CL WFA	Fr SS SP c/white PM					
				few SAP					
2	4%	0-5	B SL WM Gr	Fr SS SP	N/A	55	N/A		.3
		5-32	R C MMA	Fi SS SP					
		32-55	BR CL WFA	Fi SS SP few SAP					
3	10%	0-8	B SL WM Gr	Fr SS SP	N/A	60	N/A		.3
		8-40	R C MMA	Fi SS SP					
		40-60	RB CL WFA	Fr SS SP f SAP					
4	9%	0-10	B SL WF Gr		N/A	60	N/A		.3
		10-36	R C MMA	Fi SS SP					
		36-60	RB CL WFA	Fr SS SP f/c SAP					
5	8%	0-7	B SL WF Gr	Fr SS SP	N/A	60	N/A		.3
		7-30	R C MFA	Fi SS SP					
		30-60	BR CL WMA	Fr SS SP c SAP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	500	333
System Type(s)	ACCEPTED	PPBPS
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Overby
OTHER(S) PRESENT:

LICENSED SOIL SCIENTIST
NUELL OVERBY
1218
STATE OF NORTH CAROLINA

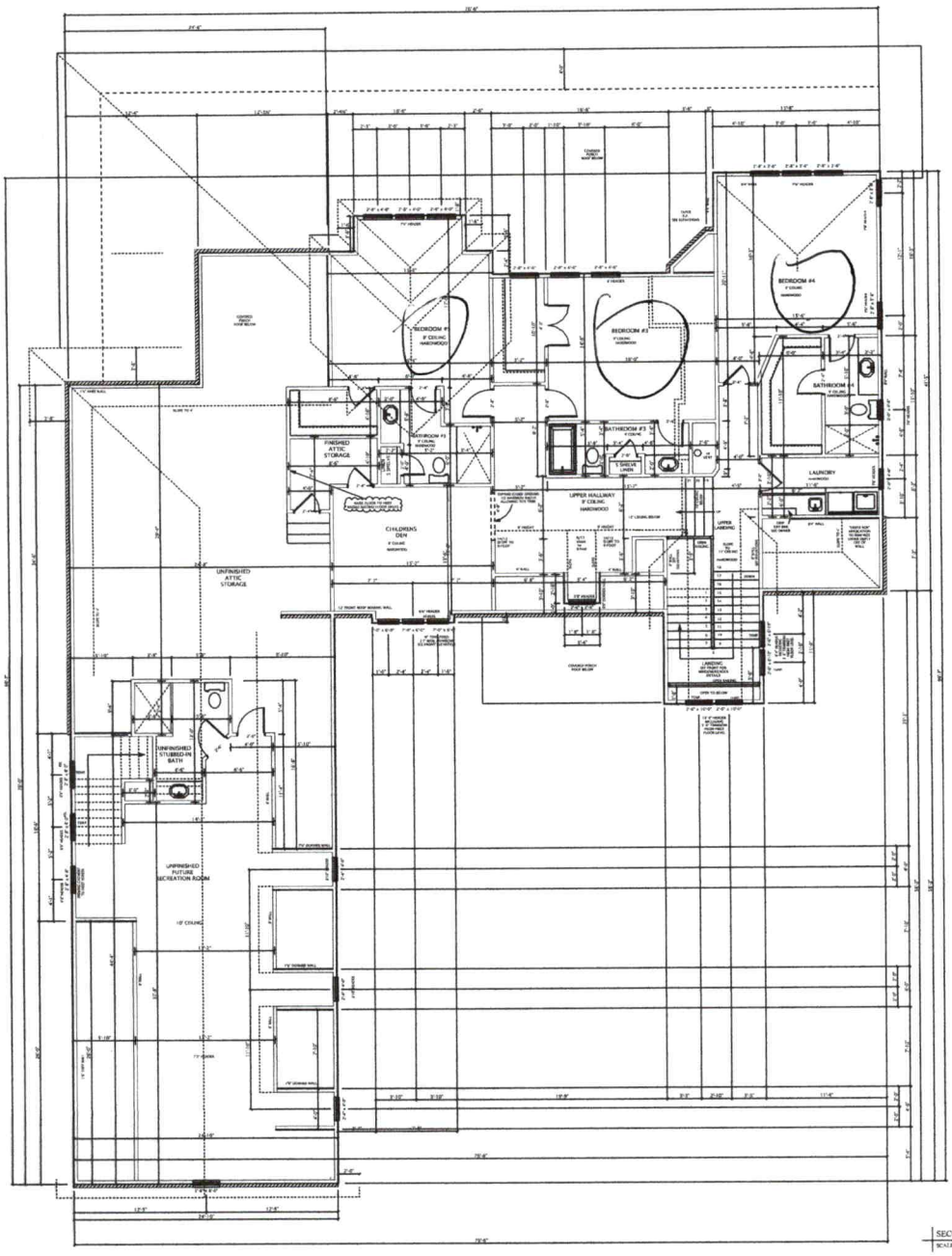
COMMENTS:

PROPERTY ID #: 4625871015

COUNTY: Iredell

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

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 SAPR CLASS	.1944 RESTR HORIZ	
6	8%	0-8	B SL WF Gr		N/A	60	N/A		.3
		8-38	BR C MMA	Fi SS SP					
		38-60	BR CL WMA	Fr SS SP c SAP					



SECOND FLOOR DETAIL CONSTRUCTION SHEET

SCALE: 1/4" =1'0"

GENERAL WINDOW NOTES:

IMPORTANT NOTES ON HOME APPEARANCE:

IMPORTANT INFORMATION: PLEASE READ CAREFULLY **** BEFORE STARTING CONSTRUCTION ****

SITE REQUIREMENTS

GENERAL FOUNDATION NOTES:

IMPORTANT CARPENTER NOTES:

THIS PLAN IS FOR BUILD FOR MARTY & DENISE WEBER 122 BROWNSTONE DR MOORSVILLE, NC LOT#149

PROJECTS ONLY USE FOR BUILD ON ANY OTHER LOCATION IS IN VIOLATION OF PLAN COPYRIGHT

trusterio

American Institute of Building Design

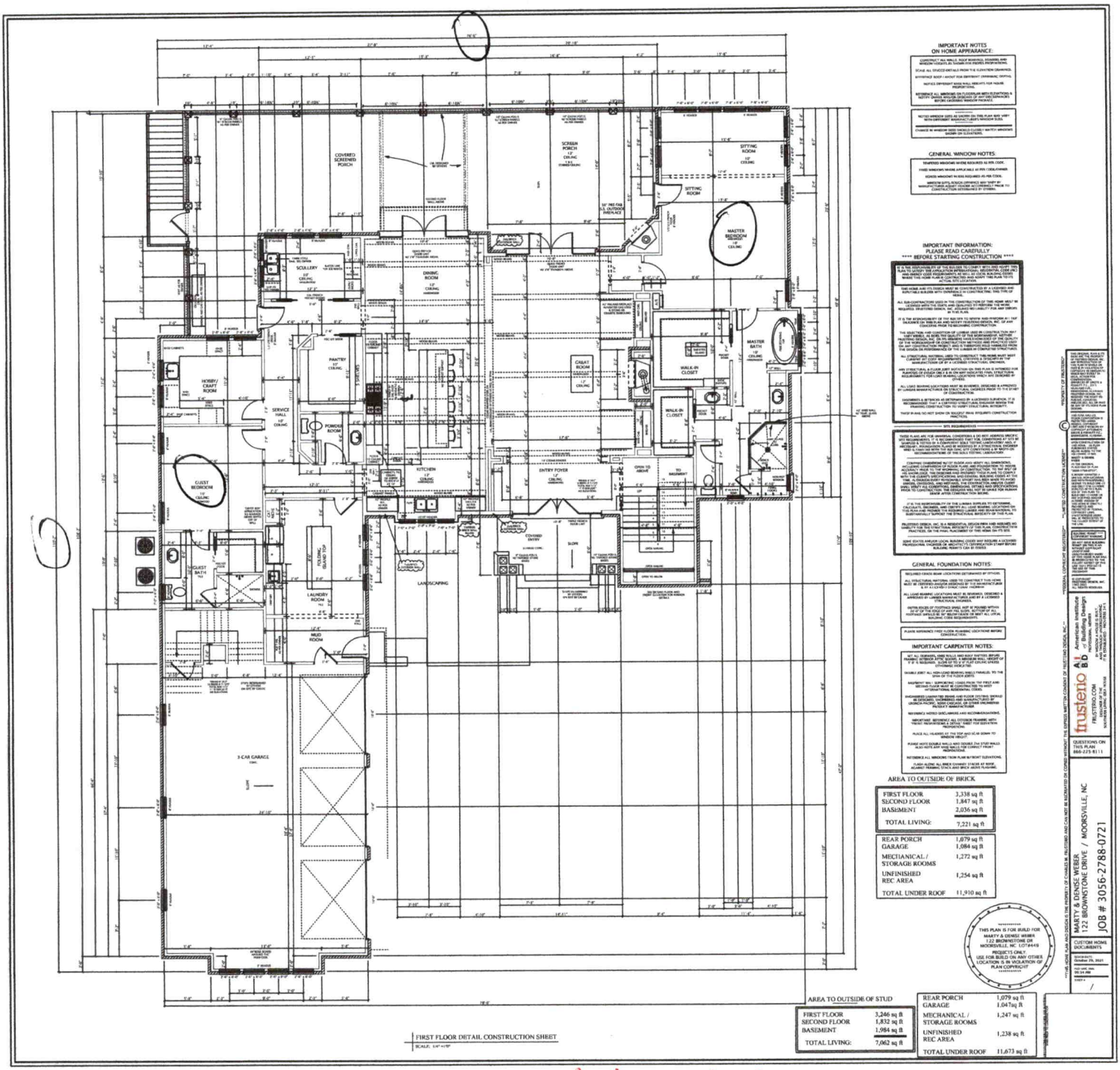
MARTY & DENISE WEBER
122 BROWNSTONE DRIVE / MOORSVILLE, NC
JOB # 3056-2788-0721

CUSTOM HOME DOCUMENTS

Acknowledgement Of Plans Submittal ONLY!

Date 11/23/21

BAB Date 12-1-21



FIRST FLOOR DETAIL CONSTRUCTION SHEET
SCALE: 1/4"=1'0"

Acknowledgement Of Plans Submittal ONLY!

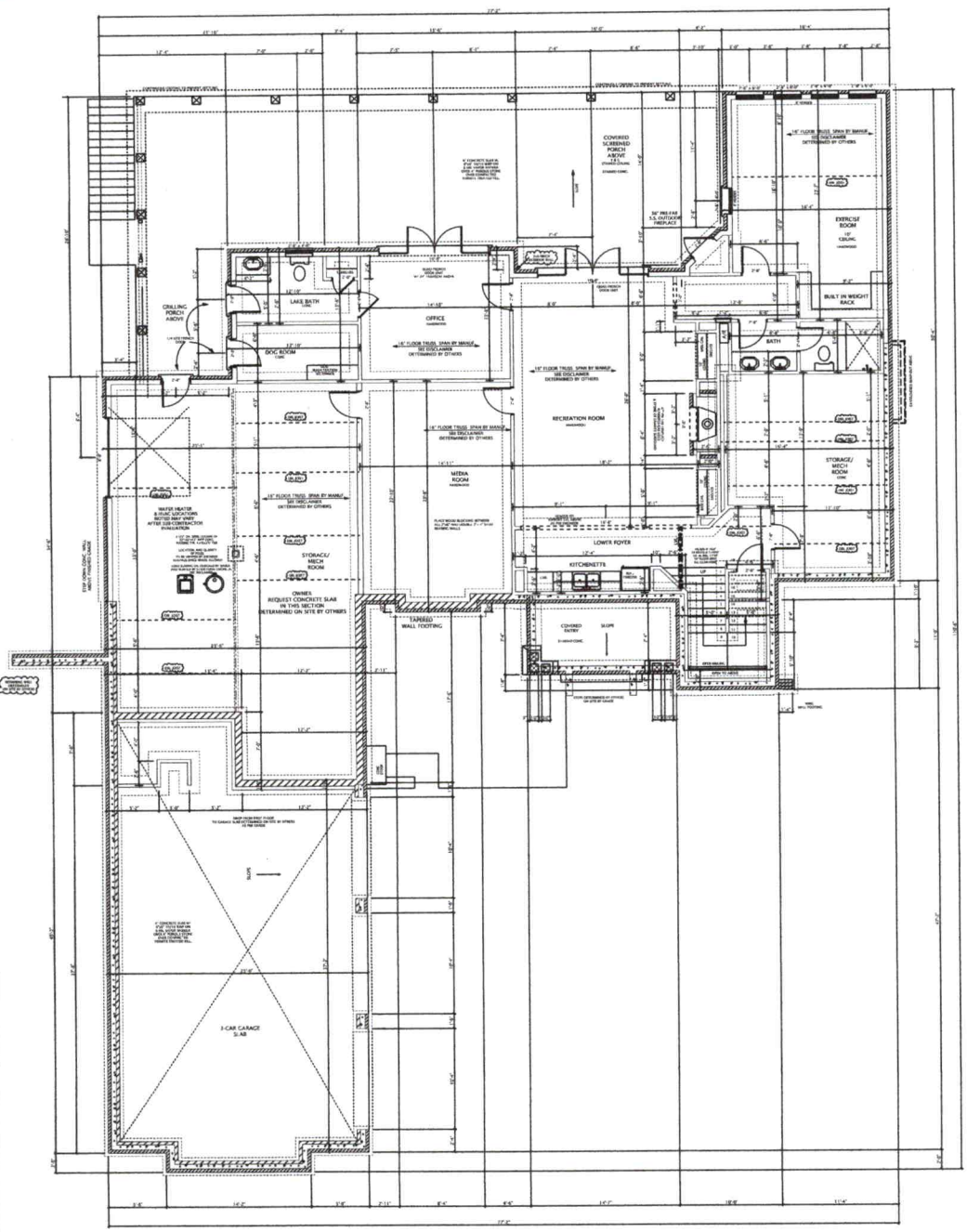
BAB

Date 11/23/21

Date 12-1-21

77'-2"

110'-6"



FOUNDATION / BASEMENT DETAIL CONSTRUCTION SHEET
SCALE: 1/4" -1'0"

GENERAL WINDOW NOTES:

IMPORTANT NOTES ON HOME APPEARANCE:

IMPORTANT INFORMATION: PLEASE READ CAREFULLY **** BEFORE STARTING CONSTRUCTION ****

GENERAL FOUNDATION NOTES:

IMPORTANT CARPENTER NOTES:

THIS PLAN IS FOR BUILD FOR MARTY & DENISE WEBER 122 BROWNSTONE DR MOORSVILLE, NC LOT#48 PROJECTS ONLY USE FOR BUILD ON ANY OTHER LOCATION IS IN VIOLATION OF PLAN COPYRIGHT

Acknowledgement Of Plans Submittal ONLY!

Date 12/23/21

Date 12-21-21

frusterio A1 B D
American Institute of Building Design
FRUSTERIO DESIGN, INC.
QUESTIONS ON THIS PLAN? 866-273-8111

MARTY & DENISE WEBER
122 BROWNSTONE DRIVE / MOORSVILLE, NC
JOB # 3056-2788-0721

CUSTOM HOME DOCUMENTS

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SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

November 17, 2021

Iredell County Environmental Health
Attn: Heath Snow
349 N Center Street
Statesville, NC 28677

Re: Session Law 2018-114 Submittal for 122 Brownstone Drive-Lot 449 The Point

Mr. Snow,

Attached please find sealed soil notes as well as site plans and design related data for a 5-bedroom accepted system pressure manifold distribution. The foundation type of the house is basement with plumbing. A grinder pump and settling tank are proposed. The design packet is submitted under Session Law 2018-114 (HB 374).

"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: Marty and Denise Weber:

Signature:_____

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

Wendell Overby, LSS

Signature: Wendell Overby

Seal:



SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

A design for a 5 Bedroom
ACCEPTED Septic System
using MANIFOLD distribution
for The Point, Lot# 449

Contents: **Page**

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

Design Information
- Design Specifications---------- 2-3
- Layout Specifications---------- 4
- System Flow---------- 5
- Repair Flow---------- 6

Site Plan---------- 7

Pump Specifications---------- 8

Calculations---------- 9

Pressure Manifold Specifications---------- 10

Iredell County Septic Application---------- 11-12

Iredell County Environmental Requirements---------- 13

Agent Authorization---------- 14

Soil Profile Descriptions---------- 15-16

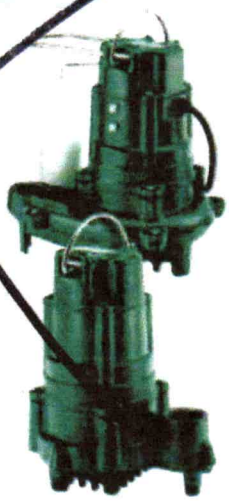
House Plans---------- 17-20

Nov 2021
Design By: W. Overby

137, 139, 140, 145

Flow-Mate

In high head dewatering or effluent applications where pumping performance is critical, this robust family of pumps is known for reliability, durability and performance. These pumps are especially suited for harsh environments. Zoeller's cool run design and corrosion-resistant, powder coated epoxy finish add up to a long-lasting, trouble-free product.



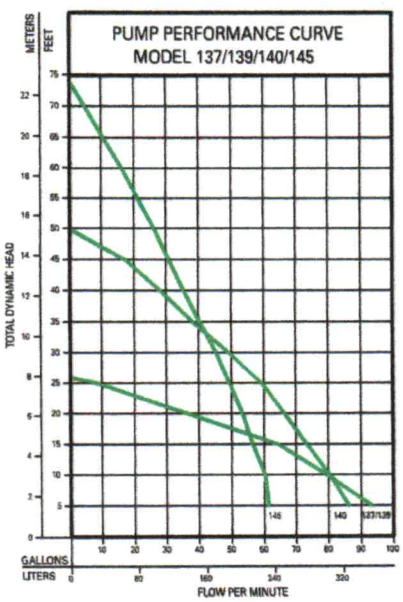
APPLICATIONS:

- STEP or onsite applications
- Water transfer
- Light commercial dewatering

SPECIFICATIONS:

- 1-1/2" NPT discharge
- 1/2 HP through 1 HP
- Available in automatic or nonautomatic
- Model 137, 139, 140: 1/2" (12 mm) spherical solids capacity with vortex impeller
- Model 145: 3/4" (19 mm) spherical solids capacity with vortex impeller
- Bronze construction available (139 series)
- High head version available (145 series)
- Double shaft seal versions available for added protection on models 140/145.

For more information, see Technical Data Sheets FM2782, FM2783.



152656

151, 152, 153

Dose-Mate

This is our fastest growing line of effluent pumps. The 150 series is truly a workhorse designed for reliability under extreme conditions in an effluent environment. 150 series pump curves cover a wide range of applications. They are well suited to applications with low pressure pipe (LPP) and enhanced flow STEP systems. Zoeller's cool run design and corrosion-resistant, powder coated epoxy finish, in addition to the hermetically sealed, oil-filled motor and non-clogging vortex impeller add up to a long-lasting, trouble-free product.



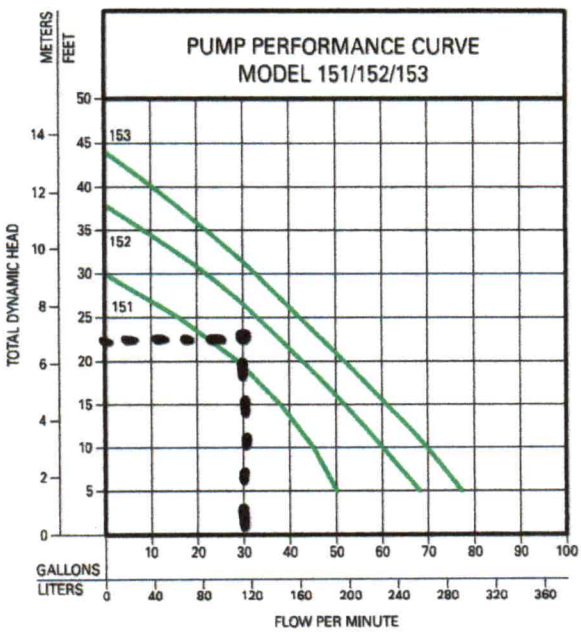
APPLICATIONS:

- STEP or onsite applications
- Light commercial dewatering

SPECIFICATIONS:

- 1-1/2" NPT discharge
- 3/10 HP through 1/2 HP
- Available in nonautomatic or with a variable level piggyback mechanical switch
- 1/2" (12 mm) spherical solids capacity with vortex thermoplastic impeller

For more information, see Technical Data Sheet FM2784.



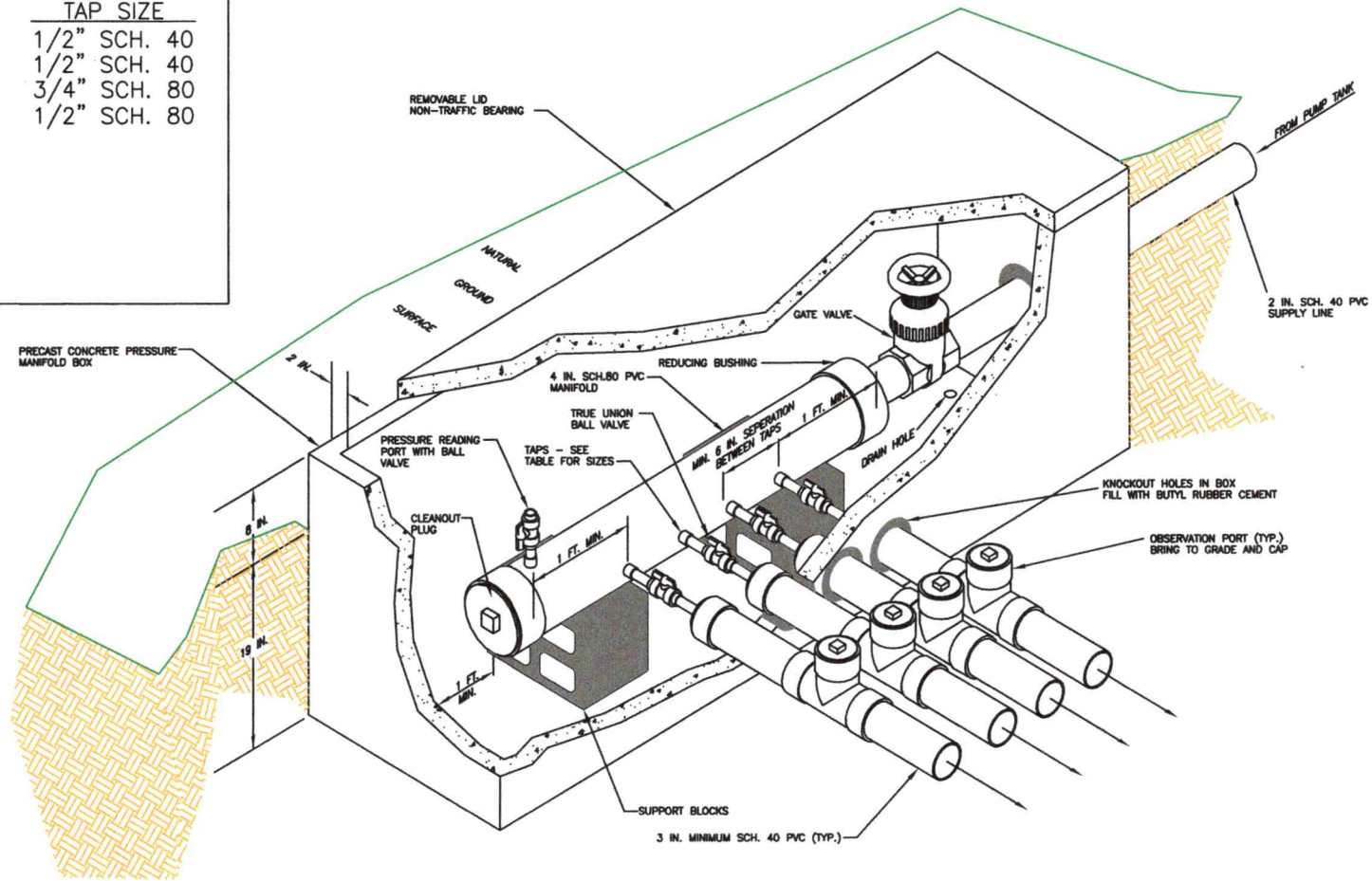
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PRESSURE MANIFOLD DETAILS
FOR
122 BROWNSTONE DRIVE

TAP SIZES

LINE No.	TAP SIZE
7 + 8	1/2" SCH. 40
9 + 10	1/2" SCH. 40
11 + 12	3/4" SCH. 80
13	1/2" SCH. 80



The Point, Lot# 449
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 that must be considered along with all other considerations.
* 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
* All fittings shall be pressure rated fittings.
* All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
* Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
* Trenches shall be carefully excavated so the bottom 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.
* Elevations at pinflag locations should be checked by the installer prior to beginning
* Pump tank 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 specified as ACCEPTED type using MANIFOLD distribution**
* **Repair specified as PANEL BLOCK type using LPP distribution**
* **System trench depth specified at 24"**
* **System trenches installed on 9' minimum; 3' wide trenches**
* **Foundation has basement with plumbing requiring grinder pump and settling tank**
* **Sleeve supply line under driveway. Site plan includes a pool.**
* **House corners staked in the field by surveyor**

The Point, Lot# 449

Manifold Design

DESIGN FLOW:	600	gpd
SOIL APPLICATION RATE:	0.3	gpd/ft.sq
TOTAL AREA TRENCH BOTTOM:	1560	sf
TOTAL LATERAL LENGTH:	520	lf
LATERAL LENGTH REQUIRED:	500	lf
SUPPLY LINE LENGTH:	230	lf
TOTAL DYNAMIC HEAD:	23.50	gpm
DOSING VOLUME:	237.69	gal
PUMP TANK DRAW DOWN*:	8.2	in
SEPTIC TANK SIZE:	1500	gal
PUMP TANK SIZE:	1500	gal
RECOMMENDED PUMP:	Zoeller Dose Mate 152 or County Approved Effluent Rated Pump Capable of Delivering 24 ft.of Head at 30 gpm Total Flow	

The Point, Lot# 449
PRESSURE MANIFOLD DOSED SYSTEM
FOR WASTEWATER TREATMENT

Business (if applicable):
Contact: Marty & Denise Weber
Phone: 949 943-4533
Email: mweber@weberwaterresources.com
County: Iredell
Location: The Point

Design Specifications

Source of Wastewater Flow:	5	bedroom home
Estimated Daily Wastewater Production:	600	gpd
System Flow:	29.80	gpm
Drain field Size:	520	lf
Loading Rate:	0.3	$gpd/ft.^2$
Trench Depth:	24	in
Trench Width:	36	in
Septic Tank Size:	1500	gal
Pump Tank Size:	1500	gal
Estimated Supply Line Length:	230	lf
Supply Line Diameter:	2 in. SCH 40 PVC	
Supply Line Volume:	33.81	gal
Dosing Volume:	237.69	gal
Pressure Head:	2	ft
Friction Head:	4.09	ft
Elevation Head:	16.00	ft
Total Dynamic Head:	23.50	ft
Threaded Union:	In Tank	
Gate Valves:	1 in Tank: 1 @ manifold	
Check Valves:	In Tank	
Anti-Siphon Hole:	n/a	
Recommended Pump:	Zoeller Dose Mate 152 or County Approved Effluent Rated Pump Capable of Delivering 24 ft.of Head at 30 gpm Total Flow	

The Point, Lot# 449
LAYOUT SPECS

Daily Flow (gpd) **600** **Nov 2021**

LINE #	FLAG COLOR	BS	HI	FS	ELEV	FLAGGED LENGTH	DESIGN LENGTH
TBM		22.8			100.0		
INSTR. 1			122.8				
			SYSTEM				
7	Orange			6.1	116.7	70	64
8	Yellow			6.7	116.1	73	64
9	Blue			7.2	115.6	77	64
10	Pink			7.7	115.1	80	64
11	Red			8.4	114.4	85	84
12	Orange			9.3	113.5	88	88
13	Yellow			10.2	112.6	92	92
14	Blue	Extra		10.8	112.0	60	0
			REPAIR				
1	Red			2.4	120.4	50	48
2	Orange			2.9	119.9	53	48
3	Yellow			3.5	119.3	60	60
4	Blue			4.3	118.5	62	60
5	Pink			4.6	118.2	63	60
6	Red			5.8	117.0	66	60

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	REDUCTION TYPE	DIST	TRENCH DEPTH
SYSTEM	520	0.300	ACCEPTED	25%	MANIFOLD	24
REPAIR	336	0.300	PANEL	50%	LPP	30

Notes:
- **TBM is assumed to be 100'
- **All measures in feet
- **Nitrification lines are demonstrated on contour via colored pin flags
- **BS and FS indicate rod readings

The Point, Lot# 449

SYSTEM FLOW

PRESSURE MANIFOLD DESIGN SPECIFICATIONS

Line #	Color	Elev	Length	Hole Size	Flow/Tap	gpd	Trench Area	Flow/Line	Line LTAR
7+8	O + Y	6.1	128	SCH 40 1/2	**7.11**	143	384	**0.056**	**0.37**
9+10	B + P	7.2	128	SCH 40 1/2	**7.11**	143	384	**0.056**	**0.37**
11+12	R + O	8.4	172	SCH 80 3/4	**10.1**	203	516	**0.059**	**0.39**
13	Yellow	10.2	92	SCH 80 1/2	**5.48**	110	276	**0.060**	**0.40**
	total	**feet =**	**520**	**gal/min =**	**29.8**				

Design Flow	**600**
Pump Run to Dose 600 gpd=	**20.13**
Soil LTAR	**0.3**
Accepted LTAR	**0.40**

The Point, Lot# 449

REPAIR FLOW

PPBPS LPP DESIGN SPECIFICATIONS

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench	Number
1	Red	2.4	48	0.156	0.41	96	11
2	Orange	2.9	48	0.156	0.41	96	11
3	Yellow	3.5	60	0.156	0.41	120	14
4	Blue	4.3	60	0.156	0.41	120	14
5	Pink	4.6	60	0.156	0.41	120	14
6	Red	5.8	60	0.156	0.41	120	14
	total	**feet =**	**336**	**gal/min =**	**31.79**		**78**

Design Flow **600**

Pump Run to Dose 600 gpd= **8.78**

Soil LTAR **0.3**

LTAR with mod. **0.6**

.156 equals 5/32 inch hole

The Point, Lot# 449
Calculations

Designer	W. Overby	
Project Name	The Point	
Project #	15-1000	
Project MM YYYY	Nov 2021	
Lot # (if applicable)	449	
Business (if applicable)	Jim Phelps Collection, LLC	
Contact	Jim Phelps	
Phone	704-239-5372	
Email	jim@jimphelpscollection.com	
County	Iredell	
Bedrooms	5	
Daily Flow	600	
System LTAR	0.3	
Repair LTAR	0.3	
System Type	ACCEPTED	
Repair Type	PANEL BLOCK	
Panel Vertical or Horizontal	VERTICAL	
System Distribution	MANIFOLD	
Repair Distribution	LPP	
System Trench Depth	24	
Repair Trench Depth	30	
Supply Line Length	230	lf.
Supply Line Volume	33.81	gal.
Required Feet of Line (system)	500	
Required Feet of Line (panel repair)	333	
Amount of Line from Layout	520	ft.
Gallons per Minute	29.80	gpm
Required Septic Tank Capacity	1500	gal.
Minimum Standard Tank Size	1500	gal.
Lateral Line Volume	339.56	gal.
Dosing Volume	237.69	gal.
Tank Draw Down	8.2	in.
Pump Run Time	7.98	minutes
Elevation Head	17	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater)*
Friction Head	4.09	ft.
Friction Head +10%	4.5034	ft.
Total Dynamic Head	23.50	ft.
Pump Recommendation	Zoeller Dose Mate 152	

RECEIVED NOV 2 3 2021

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

AP - 323096

Iredell County Health Department – Environmental Health Division

PAGE 1: *APPLICATION FORM* Session Law Paid $1,200.00

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(X) Septic Improvement Permit (X) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED. APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS.

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted: ( ) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: DENISE & MARTY WEBER Address: 443 PRESTON Rd MOORESVILLE Zip: 28117
Applicant Email: MWeber@WeberWaterResources.com Phone: 949.943.4533 Alt. Phone: _____
Owner Name: SAME Address: _____ Zip: _____
Owner Email: _____ Phone: _____ Alt. Phone: _____

Property Information:

Street Address: 122 BROWNSTONE DR
Subdivision Name: POINT Section/Phase: 4 Lot Number: 449
Driving Directions: BRAWLEY SCHOOL RD, TR MARSTONS MILL, TL WHITE HORSE TL BALLSTON, TR BROWNSTONE, ON LEFT

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

CHECK FOUNDATION TYPE

(X) New Single Family Residence — Maximum Number of Bedrooms: 5 — ( ) Crawl Space Foundation
( ) New Multi-Family Residence — Maximum Number of Occupants: 10 — ( ) Concrete Slab Foundation
( ) Accessory Building — ( ) Swimming Pool — (X) Basement with Plumbing
( ) Bedroom(s) Addition — ( ) Other Addition/Structure: _____ — ( ) Basement without Plumbing
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____
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 (X) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)* Year existing system installed: N/A
( ) No Preference ( ) Alternative ( ) Conventional (X) Innovative ( ) Modified Conventional ( ) Other: _____

Please answer the following to the best of your ability:
( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

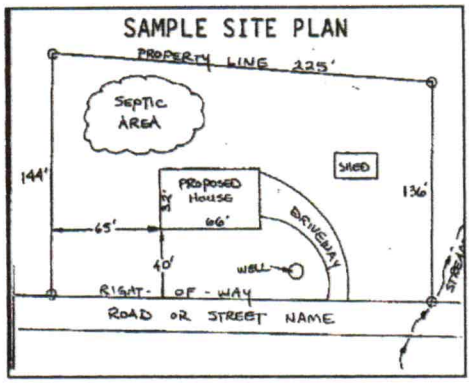
Signature: Wendell C [illegible] 11/18/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 2: *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 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 and well location**
- (X) **Area you prefer your septic system to be placed**
- (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: _____
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

11/18/21
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, Martin Weber, am the legal owner(s) of the property located at 122 Brownstone Dr Mooresville NC 28117, identified as PIN (Parcel Identification Number) 4625-87-1015, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Wendell Overby, Soil & Forestry Services of the Carolinas, PA, 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.

_____ 9/21/21
Signature of Owner(s) Date

Mooresville - Environmental Health
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

ENVIRONMENTAL HEALTH REQUIREMENTS for SEPTIC and WELL PERMITS

The following items must be completed *PRIOR* to the *SUBMITTAL* of any Environmental Health Application. Incomplete applications will be returned to the applicant and cannot be processed or placed on the work list.

*** Initial all lines below to indicate you have submitted each form and completed every site requirement ****

WD **Complete all Environmental Health forms**:

- ___ Application
- ___ Site Plan including the dimensions of proposed structure, addition, pool etc.
- ___ Documentation to Authorize Owner Agent (even if the property owner is the applicant – complete section 1 or 2)
- ___ Copy of Zoning Permit when applicable
- ___ Sign this sheet after you have completed all items

WD **Lot must be cleared of heavy undergrowth.** In order to evaluate the lot, the footprint of the proposed structure must be visible. Adequate area for the septic drain field and repair area must be sufficiently cleared of heavy undergrowth, with 50 feet of visibility in all directions. Inspectors must be able to evaluate the property, shoot laser level elevations, layout the drain field, do soils work, etc. **If the lot is not cleared sufficiently, then a $100 site revisit fee will be charged and the evaluation will be put on HOLD until the requirement is met.**

WD **Clearly mark all property corners by locating existing iron or concrete markers.** Flag all property lines every 25 feet if adjacent corners are not visible when standing on any given corner. Property lines must be flagged by a licensed NC surveyor & easily identified **prior to application submittal** (exception may apply for septic repair evaluations only). 'Mow lines' and/or fence lines do NOT constitute marked lines. **If the property lines are not properly marked when the lot is ready to be evaluated, then the application will be put on HOLD and a $100 site re-visit fee charged.**

WD **Stake or flag the footprint of the proposed structure, addition, pool etc. to match the site plan submitted.** The proposed structure, etc. must be staked out on the property as per the site plan.

WD **If an Authorization to Construct (AC) is desired,** submit a recorded copy of the plat for newly created or subdivided lot(s) and a LEGIBLE copy of the basic floor plan no larger than 8 ½" x 14" for each floor of the structure including decks, porches, etc. **The overall dimensions must be clearly noted & the rooms labeled.**

Any site not meeting the above requirements when staff arrives for the evaluation will result in a $100 site revisit fee being charged and the request being placed on HOLD. This will delay the processing of the application. *Once work by Environmental Health staff begins, the up-front fees paid toward securing any health department permit are nonrefundable. Refunds for work not started, due to a customer changing their mind or plans, are subject to an administrative fee of $50 to defray a portion of the costs of processing the refund.*

Backhoe pits are required for all applications that require a soils evaluation.
DO NOT DIG PITS UNTIL THE EH SPECIALIST HAS AUTHORIZED AND SCHEDULED YOUR EVALUATION TIME.

- **All utilities shall be marked before pits are dug. Call NC 811 for this service.**
- The applicant/agent is responsible for securing these services
- Backhoe pits are to be dug at the locations and depths determined by the Environmental Health Specialist or a NC Licensed Soil Scientist. A minimum of four pits must be dug.
- The EH specialist will contact you when your application is ready to be processed for pit scheduling.
- Your backhoe operator must be on site during the EH Specialist's evaluation to prevent your operator from having to return to the property for additional work.

By signing below, I am acknowledging the above specifications have been met and the site is READY to be evaluated AND I understand the backhoe pit requirement and will secure those services (if applicable).

Signature _____ **Date** 11/18/21

Questions? Contact the Environmental Health Offices below:

Statesville Office
349 North Center Street (2nd Floor Building Standards)
Statesville, NC 28677-4063
Phone: (704)878-5305 ext. 3456

Mooresville Office
610 East Center Avenue (2nd Floor Govt. Center South)
Mooresville, NC 28115-2548
Phone: (704)660-3625