ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 318360

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

PIN # 4763 --71 --8128

APPLICANT/OWNER: Helmsman Homes APPLICANT ADDRESS: PO Box 3965 Mooresville NC 28117.

SITE ADDRESS: 251 Big Forest Drive Statesville NC 28677 PHONE: ALT. PHONE

SITE DIRECTIONS: Hwy 90 to Morehead Rd to old well House to Big Forest SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Forest Acres SECTION: - LOT# 217 LOT AREA: .46 AC DESIGN FLOW: 360 L.T.A.R.: .30

Septic Tank	1000 (gal)	STB	760	Date	11-3-21	☐ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI
Pump Tank	1000 (gal)	PT	363	Date	11-14-21	System Description: LP-PPBPS-50% Reduction			
Pump Make		Model		Serial #		Repair System Description: LP-PPBPS-50% Reduction			
# Nitrification Fields	1	# Lines	6	Linear Ft	200	Maintenance Agreement Required:	☐ YES	☐ NO	
Trench Width	24 in.	Trench Bottom Depth(Low side)	30 in	Gravel Depth	—		☐ GRAVITY	☒ PRESSURE	

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

Comments / Conditions:

INITIAL SITE SKETCH

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

Soil & Forestry Services of the Carolinas PA

LSS # 1231 August 3rd 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.

	Date	Initials
Drain Lines Checked	12-30-21	CW
Tanks Checked	2-23-21	JB
Pressure Manifold or Valve Box Checked	3-8-22	CW
Pressure Head Set	3-8-22	CW
Electrical Checked	3-10-22	CW
Floats Set	3-8-22	CW
Alarm Checked	3-8-22	CW
Maintenance Contract (Y) / N	3-10-22	CW
Comments: Checked tank No fills or risers		

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**

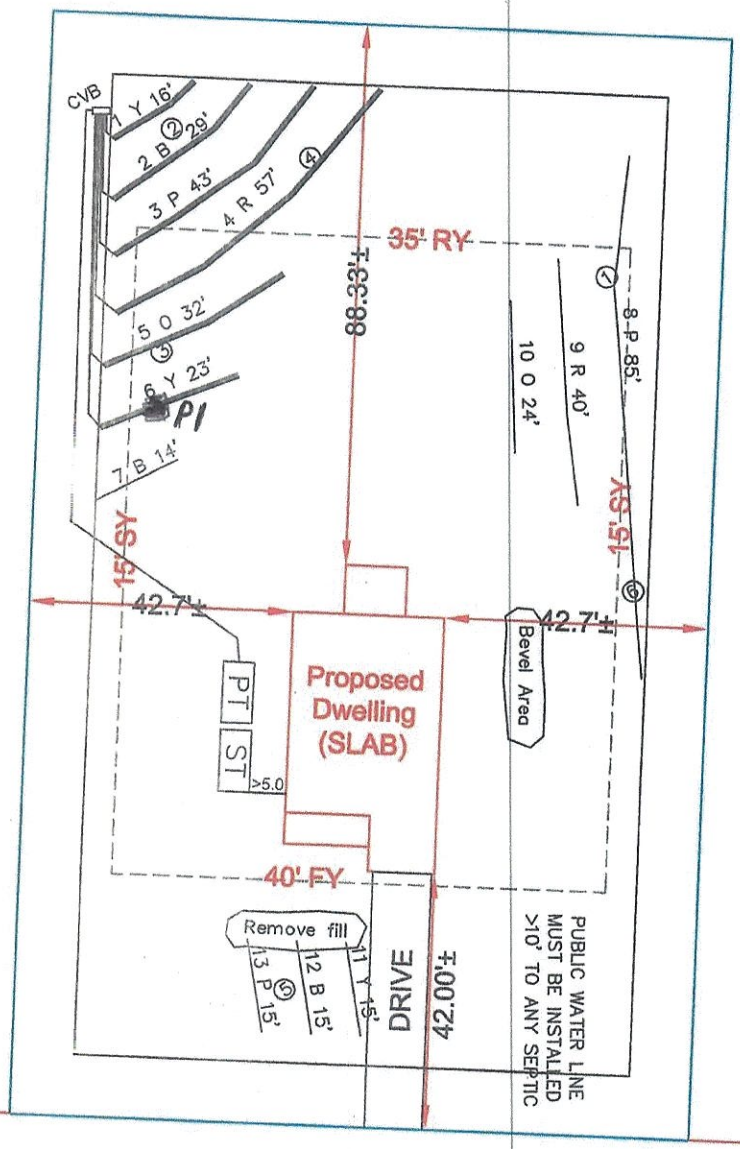
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☒ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☐ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Date: 9/17/21 Installed by: Specialty Septic

IMPROVEMENT PERMIT by: Benjamin A Box Date: 9-7-2021 OPERATION PERMIT by: Cory Thicke Date: 3-10-22

AUTHORIZATION TO CONSTRUCT by: Benjamin A Box Date: 9/8/2021 Existing System Inspected by: Date:

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





SCALE
1" = 30'

Big Forest Drive
50' R/W Public
Per P.B.23, PG.40

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 21-0056
August 3rd, 2021

HELMSMAN HOMES, LLC
Attn: *Michael Wetter*
Email: mwetter@nesthomes.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence on Lot 217 Forest Acres Subdivision, .46 ac Parcel, PIN# 4763718128, 251 Big Forest Drive, Statesville, NC 28677.

Mr. Wetter:

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 partially cleared/graded for the house pad and partially wooded. Topography within the evaluated area was gentle to moderate slope near the house site and proposed drainfield area. There is a small low area/head slope dissecting the property that outlets near the left front corner. See Site Plan for additional site grading/fill removal requirements for the repair areas. Property lines and corners were marked at the time of the evaluation by Jordan-Grant Surveying. The surveyor provided an Autocad File of a survey as a basemap. The proposed septic layout was located via survey & tape measures and used to produce the attached *Site Plan*. The house envelope was located via Survey by Jordan-Grant Surveying.

Methodology

We evaluated soil areas through the use of soil borings pits. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with six soil boring locations on the property flagged and located via tape measure. All of the soil borings are located in or adjacent to 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 boring. The house envelope was located via survey. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by

survey and tape measures. Detailed system & repair information is summarized in the following paragraph for this Lot.

251 Big Forest Drive *(See Attached Design)*
The septic layout for this lot (8' centers) yielded a total of 408 linear feet of line. The primary system is proposed as 200 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. Trench depth is specified at 30 inches (Low Side). The repair system is proposed as 208 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. Trench depth is specified at 30 inches (Low Side).

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 Tim Carr
Signature Tim Carr 8-10-21

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 251 Big Forest Drive, 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*

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 NC 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.
- 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 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 a PPBPS installation with low pressure distribution.
- Repair is specified as a PPBPS installation with low pressure distribution.
- Backfill 4 - 6" of material (County Approved) over panels, rake trench walls, lime side-walls, install trenches 24" wide and have no more than 1/4" fall in 10 feet.
- **Note Fill Removal and Grading Requirements on Site Plan**

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for a PPBPS Septic System w/Low Pressure distribution for a 3 bedroom single family residence on 251 Big Forest Drive Forest Acres Subdivision Lot # 217, (PIN# 4763718128), Statesville NC, 28677.

Contents: **Page**

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Design Information
- Design Specifications---------- 2-3
- Layout Specifications---------- 4
- System Tapsheet---------- 5

Site Plan/System Plan---------- 6

Calculations---------- 7

Profile Descriptions---------- 8-9

Septic Application---------- 10-11

Agent Authorization---------- 12

Green Sheet---------- 13

Plat---------- 14

August 3, 2021
Project #: 21-0056
Design By: Soil & Forestry Services of the Carolinas, PA

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for a PPBPS Septic System w/Low Pressure distribution for a 3 bedroom single family residence on 251 Big Forest Drive Forest Acres Subdivision Lot # 217, (PIN# 4763718128), Statesville NC, 28677.

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August 3, 2021
Project #: 21-0056
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 NC 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.
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- 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
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- 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 a PPBPS installation with low pressure distribution.
- Repair is specified as a PPBPS installation with low pressure distribution.
- Backfill 4 - 6" of material (County Approved) over panels, rake trench walls, lime side-walls, install trenches 24" wide and have no more than 1/4" fall in 10 feet.
- **Note Fill Removal and Grading Requirements on Site Plan**

LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	Helmsman Homes, LLC
Current Address:	236 Raceway Drive (Suite 7) Mooresville, NC 28117
Phone:	704.202.1524
County:	Iredell
Location:	251 Big Forest Drive Statesville, NC 28677
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360 gpd
System Flow:	18.86 gpm

Design Specifications

Drainfield Size:	200
Loading Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (PPBPS)
Gravel Size:	NA (PPBPS)
Max Trench Depth (Low Side):	30 In., Repair 30 in. Trench Depth
Trench Width:	24 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	105
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	18.27
Dosing Volume:	165.60
Supply Manifold:	N/A
Supply Manifold Length:	N/A
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:	1.33
Elevation Head:	12.50
Total Dynamic Head:	18.21
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 per lateral
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Soil & Forestry Services of the Carolinas, PA

251 Big Forest Drive

LP PPBPS

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	400
TOTAL LATERAL LENGTH:	200
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	200
SUPPLY LINE LENGTH:	105
TOTAL DYNAMIC HEAD:	18.21
MANIFOLD SIZE:	N/A
DOSING VOLUME:	165.60
PUMP TANK DRAW DOWN*:	7.9
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	1000

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

251 Big Forest Drive

Project #: 21-0056

LAYOUT FOR 3 BEDROOM HOME

August 3, 2021

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
HOUSE CNR	(RIGHT REAR)			800.00			
P. TANK				797.50			
1	*YELLOW*			*2.60*	*804.20*	*16*	*16*
2	*BLUE*			*3.10*	*803.50*	*29*	*29*
3	*PINK*			*3.90*	*802.80*	*43*	*43*
4	*RED*			*4.60*	*802.00*	*57*	*57*
5	*ORANGE*			*5.50*	*801.00*	*32*	*32*
6	*YELLOW*			*6.50*	*800.00*	*23*	*23*
7	BLUE			7.63	799.00	14	14
8	PINK			8.90	803.80	85	85
9	RED			9.50	803.00	40	40
10	ORANGE			5.50	802.30	24	24
11	YELLOW			6.50	798.00	15	15
12	BLUE			7.63	797.50	15	15
13	PINK			8.90	797.00	15	15
					Total	**408**	**408**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION	LOW SIDE TRENCH DEPTH
*System	*200*	*0.300*	*MOD.*	*0.300*	*PPBPS*	LOW PRESSURE	30"
Repair	*208*	*0.300*	*MOD.*	*0.300*	*PPBPS*	LOW PRESSURE	30"

Notes:

****Septic lines (1 - 10) located via survey; 11-13 via tape measure**
****All measures in feet**
****Nitrification lines are demonstrated on contour via colored pin flags**

LP PPBPS TAPSHEET -251 Big Forest Drive

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
1	*YELLOW*	*804.20*	*16*	*0.156*	*0.41*	*32*	*4*
2	*BLUE*	*803.50*	*29*	*0.156*	*0.41*	*58*	*7*
3	*PINK*	*802.80*	*43*	*0.156*	*0.41*	*86*	*10*
4	*RED*	*802.00*	*57*	*0.156*	*0.41*	*114*	*13*
5	*ORANGE*	*801.00*	*32*	*0.156*	*0.41*	*64*	*7*
6	*YELLOW*	*800.00*	*23*	*0.156*	*0.41*	*46*	*5*
	total	**feet =**	**200**	**gal/min =**	**18.86**		**46**

Des. Flow	**360**
Pump Run=	**8.78**
soil LTAR	**0.3**
LTAR +5%	**0.315**
LTAR with mod.	**0.6**
LTAR with mod.. + 5%	**0.63**

.156 equals 5/32 inch hole

CALCULATIONS

Location	251 Big Forest Drive	
Project Number	21-0056	
Lot No:	217	
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length	105	ft.
Supply Line Volume	18.27	gal.
Required Feet of Line	200	ft.
Amount of Line from Layout	200	ft.
Gallons per Minute	18.86	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Pump Tank Capacity	1000	gal.
Panel Volume	3.6	gal.
# of Panels	46	
Dosing Volume	165.60	gal.

Note: Dosing Volume based on 100% of # of panels times 3.6 gal/panel

Tank Draw Down	7.9	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	8.78	minutes
Elevation Head	12.5	ft.
Pressure Head	2	ft.
Friction Factor	1.27	ft./100 ft. *(From the interpolater.)*
Friction Head	1.33	ft.
Total Dynamic Head (+15%)	18.21	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

Sheet 1 of 2
PROPERTY ID #: [redacted]
COUNTY: Iredell

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

OWNER: [redacted] Helmamor Homes, LLC
ADDRESS: PO Box 3965 Mooresville NC 28115
PROPOSED FACILITY: 3BR SFR
PROPOSED DESIGN FLOW (.1949): 360 gpd
LOCATION OF SITE: 251 B Forest Drive Statesville NC 28677
APPLICATION DATE: 6/21
DATE EVALUATED: 7/7/21
PROPERTY SIZE: 1.46ac
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
B1	L/8%	0-12	RBCl mfsbk	FrSSSPSEXP	-	50	—	—	PS 0.3
		12-50	BRCumsbk	" " " "	- few soil shallow				
B2	L/8%	0-28	BRCumsbk	FrSSSPSEXP	-	50	—	—	PS .3254
		28-50	RBCl mfsbk	" " " "	- f-c sap				
B3	L/10%	0-3	BCl mfsbk	FrSSSPSEXP	-	50	—	—	PS 0.35
		3-31	BRCumsbk/Mbk	" " " "	- f sap				
		31-50	RBCl mfsbk	" " " "	- c - m sap				
B4	L/10%	0-17	BCl mfsbk	FrSSSPSEXP	-	50	—	—	PS 0.3
		17-50	BRCumsbk/Mbk	" " " "	- f sap deep				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	PPBPS	PPBPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. Ashley Rollins
OTHER(S) PRESENT: L. Cook

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

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

PROPERTY ID #: 4763718128
DATE OF EVALUATION: 7/28/21
COUNTY: Iredell

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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 5	L/7%	0-3	F.11			47	—		PS 0.3 .325
		3-8	RBclwfsbk	FrSSSPSER					
		8-30	BRcwmsbk	" " " "					
		30-50	RBclwmsbk	" " " "	-fsap				
B 6	L/10%	0-13	RBclwfsbk	FrSSSPSER	-	50	-	-	PS 0.2
		13-36	BRcwmsbk	" " " "					
P 1	*Dug on Line 6 L/10% 12/30/21	0-4	Bcl wfsbk	FrSSSPSEID		55	PS	—	PS 0.325 42" TB Lowside is ok.
		4-30	BRcwmsbk/Abk	" " " "	-fsap				
		30-55	RBclwfsbk	" " " "	-C-m sap				
		55-67	var/mass	" " " "					

COMMENTS:

Cory Whicker

From: Ashley Rollans <ashleyrollans@gmail.com>
Sent: Thursday, December 30, 2021 2:51 PM
To: Cory Whicker; Jamie Odaniel; Tim Carr
Subject: 251 Big Forest Drive - Revised Design Pages (Site Plan & Soil Description)
Attachments: SitePlan_SoilNotes_251_BigForestDrive.pdf

Cory,

Hope all is well.

Attached is a Site Plan that illustrates the location of Pit 1 along with the soil profile description for that pit. I am fine with the 42" low side trench depth that was dug for the lowest lateral on the primary. We had suitable (Loam) saprolite at 55"-67".

Please update the file with this information.

Happy New Year!

Thank you

Ashley Rollans
NC Licensed Soil Scientist, NC Certified Septic Inspector, NC Certified Septic Installer & NC Certified Operator

Soil & Forestry Services of the Carolinas, PA
P.O. Box 832
Mooresville, NC 28115
704.746.5046

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

Iredell County Health Department – Environmental Health Division

PAGE 1: *APPLICATION FORM*

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

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

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

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

Applicant Information: (PRINT CLEARLY)

Applicant Name: Robert S. Brown Address: 445 Pilch Rd Troutman Zip: 28166

Applicant Email: _____ Phone: _____ Alt. Phone: _____

Owner Name: _____ Address: _____ Zip: _____

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

Property Information:

Street Address: 448 Pilch Rd Troutman, NC 28166

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

Driving Directions: _____

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

CHECK FOUNDATION TYPE

( ) 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: _____
Maximum Number of Occupants: _____
( ) Swimming Pool
(X) Other Addition/Structure: Barn already built

( ) Crawl Space Foundation
( ) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development: Type of Business: Zoo

Square Footage of Building: 20,000 Max. Number of Employees: 6 Max. Number of Seats/Beds/Other: n/a

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: _____

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: Robert S. Brown 9/30/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

Public Health
Iredell County Health Department

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

Public Health
Iredell County Health Department

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, _____, am the legal owner(s) of the property located at _____, identified as PIN (Parcel Identification Number)_____, located in Iredell County, North Carolina.

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

_____ _____
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

RECEIVED AUG 20 2021

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM AP-358360 $500.00

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(X) 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 (X) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: Weismar Homes, LLC Address: P.O. Box 3965 Mooresville NC Zip: 28117
Applicant Email: mwetherg@nesthomes.com Phone: 704.202.1524 Alt. Phone:
Owner Name: Same Address: Same Zip: Same
Owner Email: Same Phone: Same Alt. Phone:

Property Information:

Street Address: 251 Big Forest Drive Statesville NC 28677
Subdivision Name: Forest Acres Section/Phase: Lot Number: 217
Driving Directions: see Address

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: 6
( ) Swimming Pool
( ) Other Addition/Structure:

CHECK FOUNDATION TYPE
( ) Crawl Space Foundation
(X) 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:
(X) 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:
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative (X) 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: [signature] 8/3/21
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, Helmsman Homes, LLC / Michael Weller, am the legal owner(s) of the property located at 251 Big Forest Drive, Statesville NC 28677, identified as PIN (Parcel Identification Number) 4763718128, located in Iredell County, North Carolina.

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

* Tim Carr 8-10-21

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

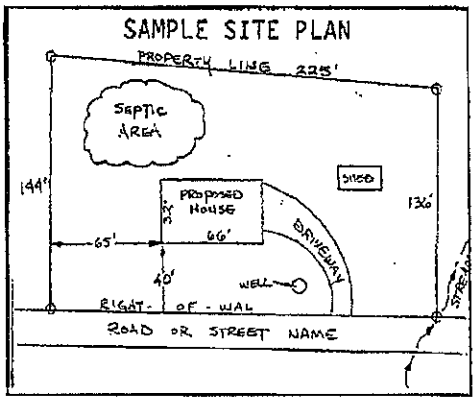
Statesville - Environmental Health
adrienne.shea@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

IREDELL COUNTY 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:

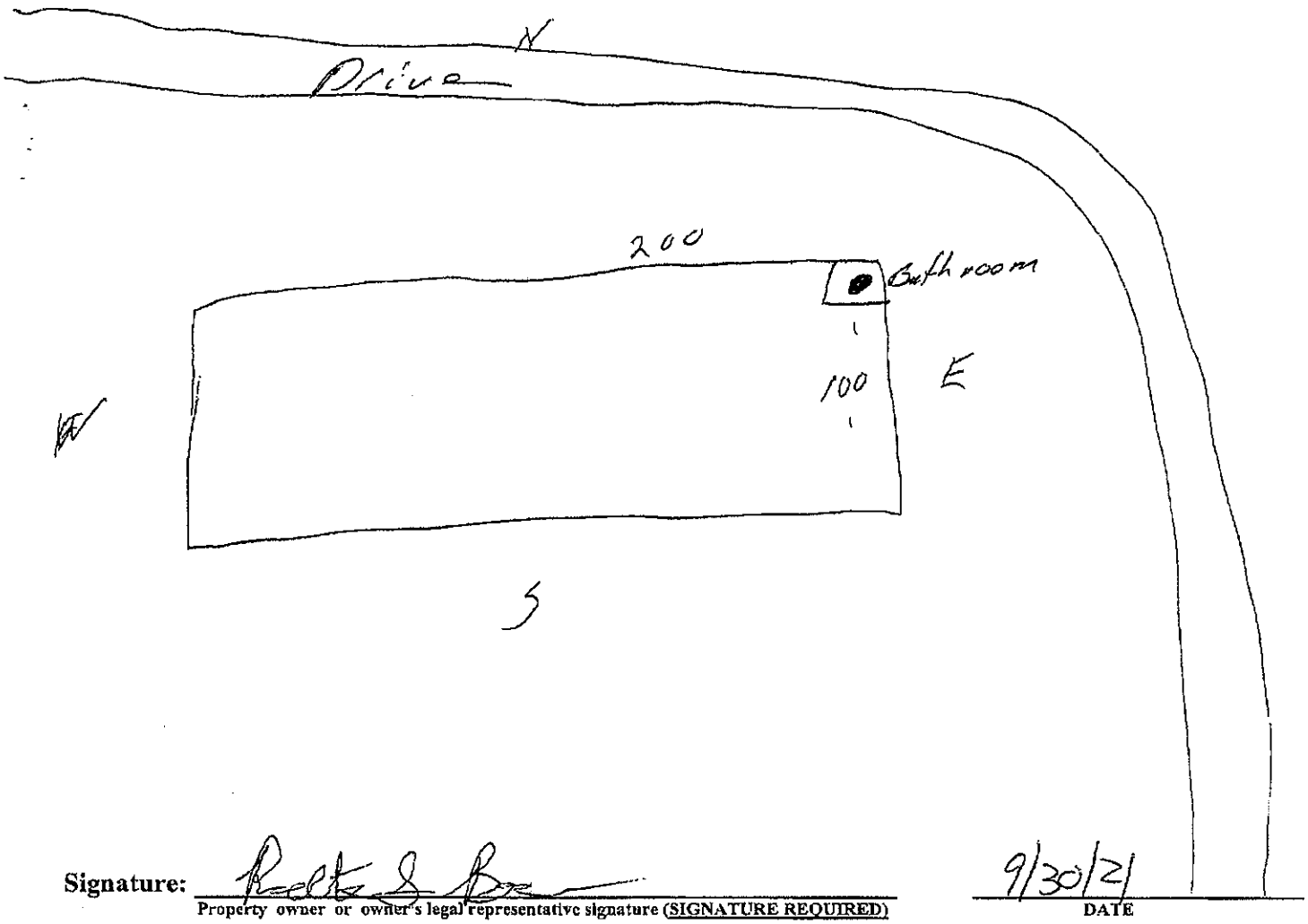
( ) Property Line measurements are clearly identified
( ) All proposed structures are indicated
( ) Front and side setbacks from property line
( ) Preferred driveway location and well location
( ) Area you prefer your septic system to be placed
( ) North arrow, or other sufficient indicator of direction

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

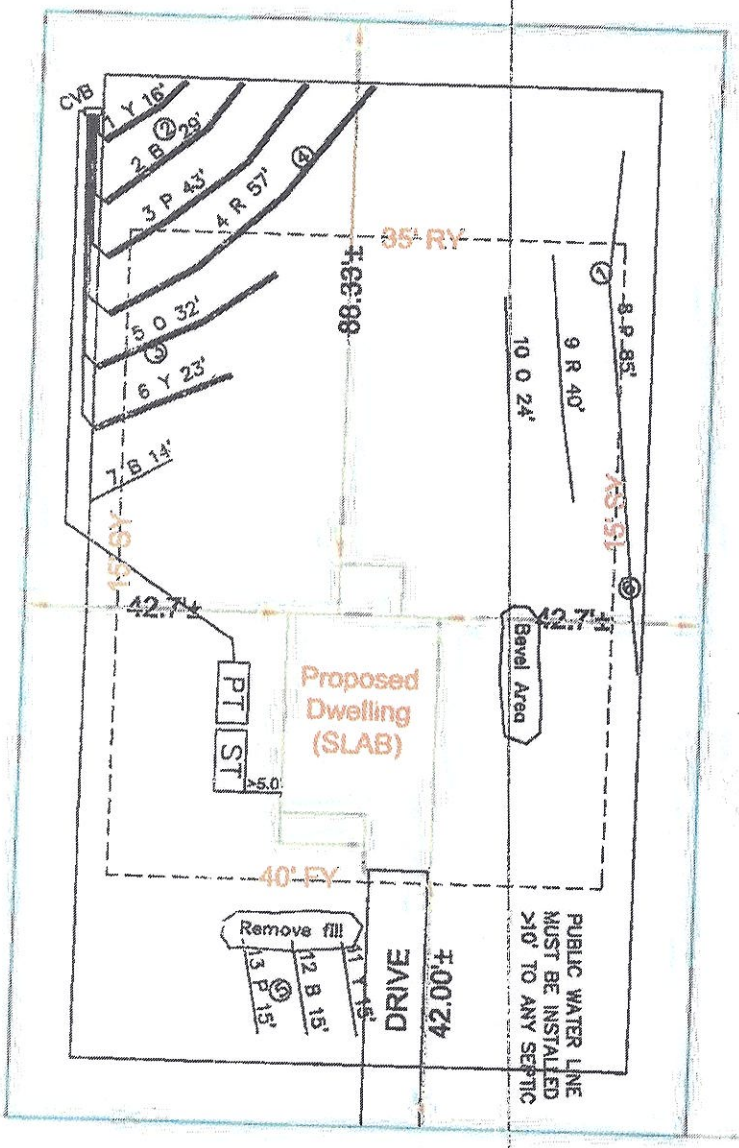
USE THIS SPACE TO DRAW YOUR SITE PLAN

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



Signature: _____ 9/30/21

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



SCALE
1" = 30'

50' R/W Public
Per P.B.23, PG.40

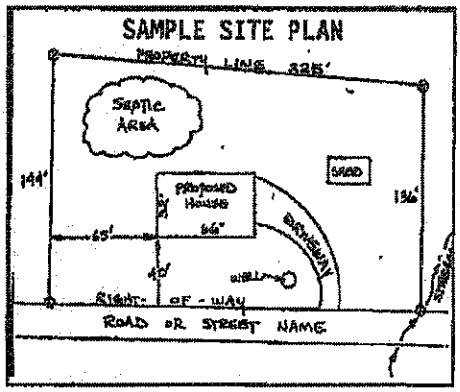
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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)

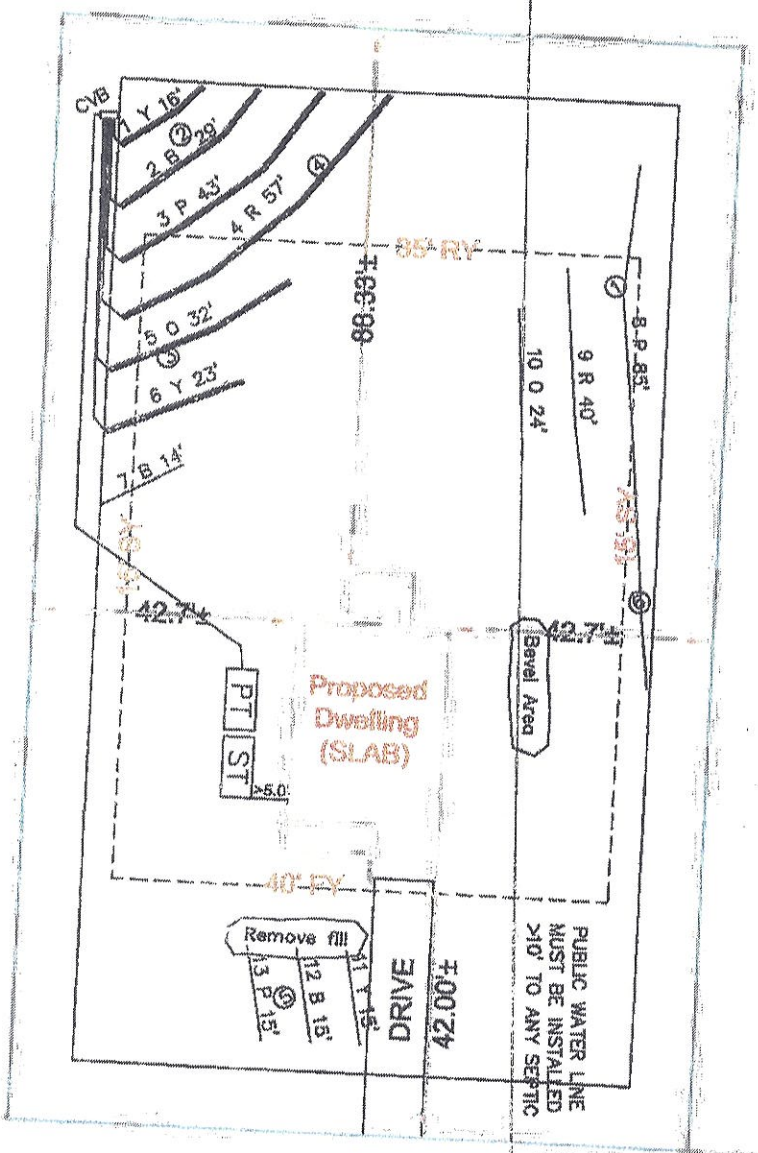
USE THIS SPACE TO DRAW YOUR SITE PLAN

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

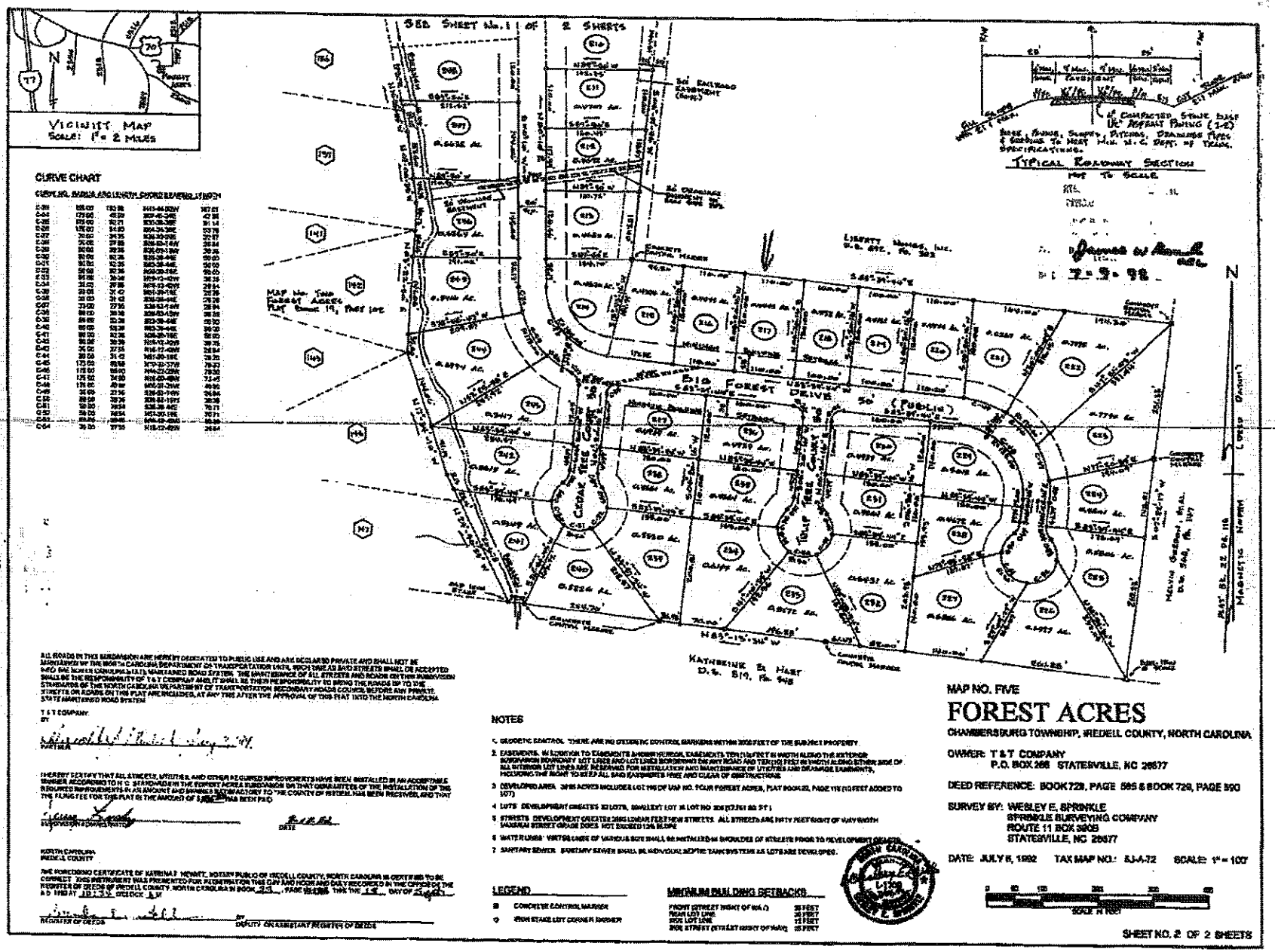
See Attached

Signature: _____ 8/3/21

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


CVB
1 Y 16'
2 B 29'
3 P 43'
4 R 57'
5 O 32'
6 Y 23'
7 B 14'
85' RY
99.33'±
9 R 40'
10 O 24'
8 P 85'
42.7'±
Bevel Area
Proposed Dwelling (SLAB)
PT
ST
>5.0'
40' RY
Remove fill
12 B 15'
11 Y 15'
13 P 15'
DRIVE
42.00'±
PUBLIC WATER LINE MUST BE INSTALLED >10' TO ANY SEPTIC
50' R/W Public
Per P.B.23, PG.40

SCALE
1" = 30'



ALL ROADS IN THIS SUBDIVISION ARE HEREBY DEDICATED TO PUBLIC USE AND ARE DECLARED PRIVATE AND SHALL NOT BE MAINTAINED BY THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UNTIL SUCH TIME AS SAID STREETS SHALL BE ACCEPTED INTO THE STATE HIGHWAY SYSTEM. THE MAINTENANCE OF ALL STREETS AND ROADS ON THIS SUBDIVISION SHALL BE THE RESPONSIBILITY OF T & T COMPANY AND IT SHALL BE THE RESPONSIBILITY TO BRING THE ROADS UP TO THE STANDARDS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SECONDARY ROADS COUNCIL BEFORE ANY PRIVATE STREETS OR ROADS ON THIS PLAT ARE INCLUDED, AT ANY TIME AFTER THE APPROVAL OF THIS PLAT INTO THE NORTH CAROLINA STATE MAINTAINED ROAD SYSTEM.

T & T COMPANY
BY:
PARTNER

I HEREBY CERTIFY THAT ALL STREETS, UTILITIES, AND OTHER REQUIRED IMPROVEMENTS HAVE BEEN INSTALLED IN AN ACCEPTABLE MANNER ACCORDING TO THE STANDARDS IN THE FOREST ACRES SUBDIVISION ORDINANCE ON THAT CONSTRUCTION OF THE INSTALLATION OF THE REQUIRED IMPROVEMENTS IN AN AMOUNT AND MANNER SATISFACTORY TO THE COUNTY OF IREDELL HAS BEEN RECEIVED, AND THAT THE FILING FEE FOR THIS PLAT IS THE AMOUNT OF $ [illegible] HAS BEEN PAID.

SUBDIVISION ADMINISTRATOR — DATE

NORTH CAROLINA
IREDELL COUNTY

THE FOREGOING CERTIFICATE OF MARINA P. HEWITT, NOTARY PUBLIC OF IREDELL COUNTY, NORTH CAROLINA IS (ARE) CERTIFIED TO BE CORRECT. THIS INSTRUMENT WAS PRESENTED FOR REGISTRATION THIS DAY AND HOUR AND DULY RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS OF IREDELL COUNTY, NORTH CAROLINA IN BOOK 45, PAGE 86-88 THIS THE 15 DAY OF July A.D. 1992 AT 10:30 O'CLOCK A.M.

REGISTER OF DEEDS — BY: DEPUTY OR ASSISTANT REGISTER OF DEEDS

NOTES

1. GEODETIC CONTROL: THERE ARE NO GEODETIC CONTROL MARKERS WITHIN 2000 FEET OF THE SUBJECT PROPERTY.
2. EASEMENTS: IN ADDITION TO EASEMENTS SHOWN HEREON, EASEMENTS TEN (10) FEET IN WIDTH ALONG THE EXTERIOR SUBDIVISION BOUNDARY LOT LINES AND LOT LINES BORDERING ON ANY ROAD AND TEN (10) FEET IN WIDTH ALONG EITHER SIDE OF ALL INTERIOR LOT LINES ARE RESERVED FOR INSTALLATION AND MAINTENANCE OF UTILITIES AND DRAINAGE EASEMENTS, INCLUDING THE RIGHT TO KEEP ALL SAID EASEMENTS FREE AND CLEAR OF OBSTRUCTIONS.
3. DEVELOPED AREA: 30.65 ACRES INCLUDES LOT 116 OF MAP NO. FOUR FOREST ACRES, PLAT BOOK 20, PAGE 116 (10 FEET ADDED TO LOT)
4. LOTS: DEVELOPMENT CREATES 83 LOTS, SMALLEST LOT IS LOT NO. 208 (17,751 SQ. FT.)
5. STREETS: DEVELOPMENT CREATES 2,965 LINEAR FEET NEW STREETS. ALL STREETS ARE FIFTY FEET RIGHT OF WAY WIDTH. SAVANNAH STREET GRADE DOES NOT EXCEED 12% SLOPE.
6. WATER LINES: WATER LINES OF VARIOUS SIZE SHALL BE INSTALLED IN SHOULDER OF STREETS PRIOR TO DEVELOPMENT OF LOTS.
7. SANITARY SEWER: SANITARY SEWER SHALL BE INDIVIDUAL SEPTIC TANK SYSTEMS AS LOTS ARE DEVELOPED.

LEGEND

- ■ CONCRETE CONTROL MARKER
- ○ IRON STAKE LOT CORNER MARKER

MINIMUM BUILDING SETBACKS

FRONT (STREET RIGHT OF WAY)	35 FEET
REAR LOT LINE	35 FEET
SIDE LOT LINE	15 FEET
SIDE STREET (STREET RIGHT OF WAY)	35 FEET

MAP NO. FIVE

FOREST ACRES

CHAMBERSBURG TOWNSHIP, IREDELL COUNTY, NORTH CAROLINA

OWNER: T & T COMPANY
P.O. BOX 266 STATESVILLE, NC 28677

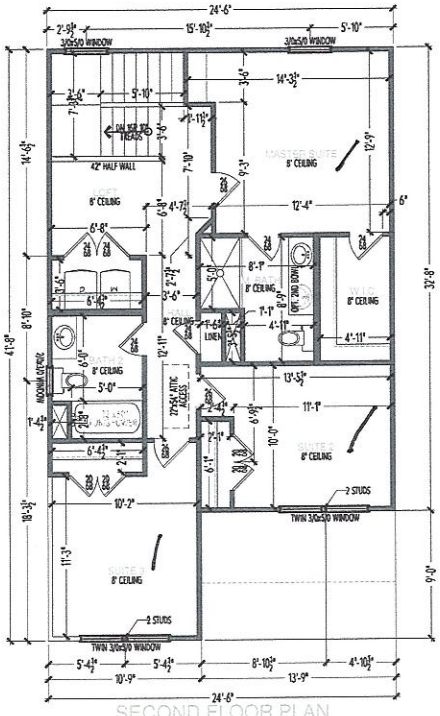
DEED REFERENCE: BOOK 729, PAGE 595 & BOOK 729, PAGE 590

SURVEY BY: WESLEY E. SPRINKLE
SPRINKLE SURVEYING COMPANY
ROUTE 11 BOX 360S
STATESVILLE, NC 28677

DATE: JULY 6, 1992 TAX MAP NO.: 5J-A-72 SCALE: 1" = 100'

SCALE IN FEET

SHEET NO. 2 OF 2 SHEETS



SECOND FLOOR PLAN

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

UPPER LEVEL NOTES

UPPER LEVEL FRAMING NOTES:

BRACED WALL LINE NOTE:
THIS STRUCTURE HAS BEEN ANALYZED FOR LATERAL LOADING USING CONTINUOUSLY SHEATHED WALL SHEATHING AS INDICATED IN THE GENERAL NOTES. WHERE BRACED WALLS DO NOT MEET THE PRESCRIPTIVE REQUIREMENTS OF SECTION R602.10 OF THE CODE, IT HAS BEEN ANALYZED BY ENGINEERING ANALYSIS INCORPORATING ENGINEERED LATERAL BRACING ELEMENTS WHERE NEEDED TO MEET THE INTENT OF THE CODE.

1. "T.T.R" INDICATES "TIE (CEILING JOIS) TO RAFTER WITH FOUR 3"X0.131" NAILS)
2. ALL LOAD- BEARING HEADERS SHALL BE (2)2X8 SPF#2 UNLESS OTHERWISE NOTED ON THE PLAN.
3. WHERE DIMENSIONS ARE NOT INDICATED, BEAMS THAT RUN PARALLEL TO FLOOR JOISTS ARE INTENDED TO ALIGN UNDER LOAD BEARING WALLS. SEE THE ARCHITECTURAL PLANS FOR DIMENSIONS TO WALLS.
4. ALL WALLS UP TO 10 FT. TALL SHALL BE 2X4 SPF#2 @ 16" O.C. UNLESS NOTED OTHERWISE ON THE PLAN. TALLER WALLS SHALL COMPLY WITH TABLE R602.3(4) OF THE CODE OR AS NOTED ON THE PLAN.
5. WOOD BEAMS SHALL BE SUPPORTED BY METAL HANGERS OF ADEQUATE CAPACITY WHERE FRAMING INTO BEAMS OR LEDGERS. THE FOLLOWING HANGER SCHEDULE MAY BE USED UNLESS NOTED OTHERWISE ON THE PLAN:

HEADER SIZE:	SIMPSON HANGERS
(2) 2X8	LUS 28-2
(2) 2X10	LUS 210-2
(2) 2X12	LUS 210-2
(2) 1¾" X 9¼" LVL	HUS 410
(2) 1¾" X 11⅞" LVL	HUS 412
(2) 1¾" X 14" LVL	HUS 412
ALL TRIPLE LVLs	HHUS 5.50/10

6. NOTE: FILL ALL OF THE HOLES IN HANGERS WITH **10d** x 3" COMMON NAILS (3" x 0.162") OR 16d x2½" (2½" x 0.162") NAILS UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. DO NOT BEND OR MODIFY THE HANGER OR USE INAPPROPRIATE FASTENERS. DO NOT USE 10dX 1½" "HANGER NAILS" UNLESS OTHERWISE NOTED ON THE PLANS OR IN SITUATIONS WHERE ONLY 1½" OR LESS OF WOOD IS PROVIDED TO NAIL INTO.
7. "LVL" AND GLU-LAM BEAMS MUST HAVE ENOUGH STUDS TO SUPPORT ALL PLIES AT EACH END WITH A MINIMUM OF (3) 2X4 OR (2) 2X6 STUDS UNDER EACH END UNLESS NOTED OTHERWISE.
8. ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, BEAM SUPPORTS -WHETHER WOOD OR STEEL-CANNOT BEAR ON SHEATHING ALONE. BLOCKING EQUAL TO OR BETTER THAN THE POINT LOAD SUPPORTS ABOVE MUST BE CARRIED THROUGH ALL CONSTRUCTION TO THE FOUNDATION. INSTALL 2X4 SQUASH BLOCKS (S.B.) OF EQUAL NUMBER TO COLUMN ABOVE BETWEEN SUBFLOOR AND FOUNDATION WALL OR LOWER PLATE. RIM BOARDS AND I-JOIST BLOCKING **SHALL NOT BE CONSIDERED** AS AN ACCEPTABLE MEANS OF SUPPORT UNDER CONCENTRATE POINT LOADS FROM LVL AND STEEL BEAMS OR WHERE "S.B" IS INDICATED ON THE PLAN.
9. FASTEN ALL TRIPLE PLY LVLs TOGETHER WITH TWO ROWS OF 9" LONG TRUSSLOK OR SIMPSON SDS SCREWS @ 16" O.C. AND FOUR PLY LVLs WITH TWO ROWS OF 6½" TRUSSLOK SCREWS @ 16" O.C. UNLESS NOTED OTHERWISE ON THE PLANS. THE SCREWS SHALL BE LOCATED A MINIMUM OF 2" AND A MAXIMUM OF 3" FROM THE TOP OR BOTTOM OF THE BEAM.
10. **JACK AND KING STUD SCHEDULE AT WALL OPENINGS:**
TO BE INSTALLED AT EACH END OF OPENING UNLESS OTHERWISE NOTED AS "4.2" OR "PC" ON PLAN
SPANS UP TO 4'-0" ..... 1 JACK, 1 KING
SPANS >4'-0" TO 5'-6" ..... 1 JACK, 2 KINGS
SPANS >5'-6" TO 6'-6" ..... 2 JACK, 3 KINGS
SPANS >6'-6" ..... SEE PLAN
11. CONTRACTOR TO PROVIDE 22"x30" ACCESS TO ATTIC.

Acknowledgement Of Plans Submittal ONLY!

_____ Date 9/30/2021.

_____ Date 10/6/21

HELMSMAN HOMES
236 Raceway Drive Suite 7
Mooresville, NC 28117
PH: 704-258-4251

Township/County
TOWNSHIP
COUNTY

Engineer

Stamp/seal

Project name/owner
THE BANYAN 1662 PLAN
ELEVATION A

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Date
December 11, 2020

Drawn by
MWH

Reviewed by
CAD

Plan set scale
24x36 sheet
1/4" = 1'-0"
11x17 sheet
1/8" = 1'-0"

Project/plan code
XX.XX.XXXX

Drawing set
FOR CONSTRUCTION

Sheet title/description
SECOND FLOOR PLAN
CLASSICAL ELEVATION

Sheet no.
A4.0

Master plan version
v1.0

WALL STUD REQUIREMENTS	
EXT. WALL HEIGHT (h)	STUD SIZE AND SPACING
h < 10'-0"	2x4 @ 16" O.C.
10'-0" < h <11'-0"	2x4 @ 12" O.C.
11'-0" < h < 18'-0"	2x6 @ 16" O.C.
h > 18'-0"	CONSULT ENGINEER

I-JOIST NOTES

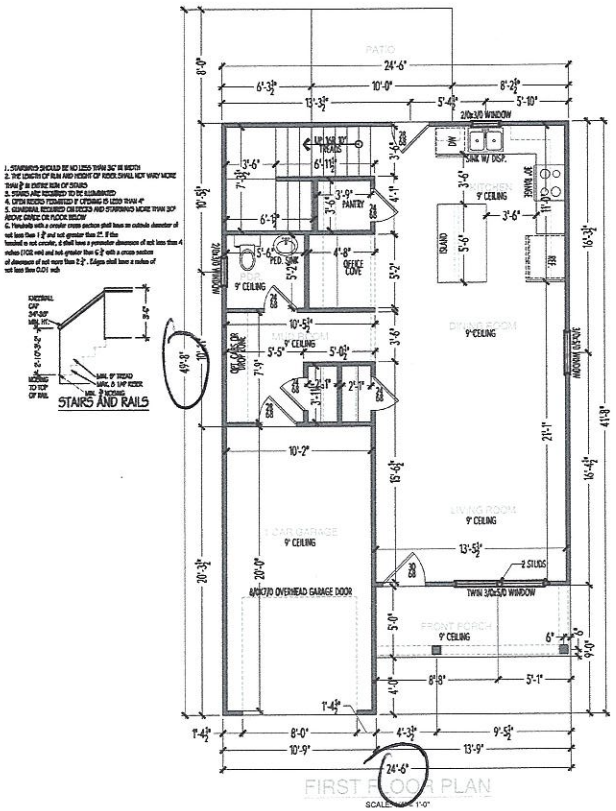
FRAMING CONSTRUCTION NOTES:

BRACED WALL LINE NOTE:
THIS STRUCTURE HAS BEEN ANALYZED FOR LATERAL LOADING USING CONTINUOUSLY SHEATHED WALL SHEATHING AS INDICATED IN THE GENERAL NOTES. WHERE BRACED WALLS DO NOT MEET THE PRESCRIPTIVE REQUIREMENTS OF SECTION R602.10 OF THE CODE, IT HAS BEEN ANALYZED BY ENGINEERING ANALYSIS INCORPORATING ENGINEERED LATERAL BRACING ELEMENTS WHERE NEEDED TO MEET THE INTENT OF THE CODE.

1. I-JOISTS ARE DESIGNED TO BE CONTINUOUS IN SOME AREAS. I-JOIST MANUFACTURER TO STOP AND START JOISTS WHERE SHOWN ON PLAN TO ALLOW FOR CONTINUOUS ACTION.
2. "DBL" INDICATES DOUBLE JOIST
3. RIM BOARDS AND BANDS PARALLEL TO FLOOR FRAMING TO BE DOUBLED.
4. ALL LOAD- BEARING HEADERS SHALL BE (2)2X8 SPF#2 UNLESS OTHERWISE NOTED ON THE PLAN.
5. WHERE DIMENSIONS ARE NOT INDICATED, BEAMS THAT RUN PARALLEL TO FLOOR JOISTS ARE INTENDED TO ALIGN UNDER LOAD BEARING WALLS. SEE THE ARCHITECTURAL PLANS FOR DIMENSIONS TO WALLS.
6. ALL WALLS UP TO 10 FT. TALL SHALL BE 2X4 SPF#2 @ 16" O.C. UNLESS NOTED OTHERWISE ON THE PLAN. TALLER WALLS SHALL COMPLY WITH TABLE R602.3(4) OF THE CODE OR AS NOTED ON THE PLAN.
7. WOOD BEAMS SHALL BE SUPPORTED BY METAL HANGERS OF ADEQUATE CAPACITY WHERE FRAMING INTO BEAMS OR LEDGERS. THE FOLLOWING HANGER SCHEDULE MAY BE USED UNLESS NOTED OTHERWISE ON THE PLAN:

MEMBER SIZE	SIMPSON HANGERS
(2) 2X8	LUS 28-2
(2) 2X10	LUS 210-2
(2) 2X12	LUS 210-2
(2) 1¾" X 9¼" LVL	HUS 410
(2) 1¾" X 11⅞" LVL	HUS 412
(2) 1¾" X 14" LVL	HUS 412
ALL TRIPLE LVLs	HHUS 5.50/10

8. NOTE: FILL ALL OF THE HOLES IN HANGERS WITH **10d** x 3" COMMON NAILS (3"x 0.162") OR 16d x 3½" (3½"x 0.162") NAILS UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. DO NOT BEND OR MODIFY THE HANGER OR USE INAPPROPRIATE FASTENERS. DO NOT USE 10d x 1½" "HANGER NAILS" UNLESS OTHERWISE NOTED ON THE PLANS OR IN SITUATIONS WHERE ONLY 1½" OR LESS OF WOOD IS PROVIDED TO NAIL INTO.
9. STEEL BEAMS MUST HAVE (5)-2X4 OR (4)-2X5 STUDS UNDER EACH END SUPPORT UNLESS NOTED OTHERWISE.
10. "LVL" AND GLU-LAM BEAMS MUST HAVE ENOUGH STUDS TO SUPPORT ALL PLIES AT EACH END WITH A MINIMUM OF (3)-2X4 OR (2)-2X6 STUDS UNDER EACH END UNLESS NOTED OTHERWISE.
11. ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, BEAM SUPPORTS WHETHER WOOD OR STEEL CANNOT BEAR ON SHEATHING ALONE. BLOCKING EQUAL TO OR BETTER THAN THE POINT LOAD SUPPORTS ABOVE MUST BE CARRIED THROUGH ALL CONSTRUCTION TO THE FOUNDATION. INSTALL 2X4 SQUASH BLOCKS (5 B.) OF EQUAL NUMBER TO COLUMN ABOVE BETWEEN SUBFLOOR AND FOUNDATION WALL OR LOWER PLATE. RIM BOARDS AND I-JOIST BLOCKING **SHALL NOT BE CONSIDERED** AS AN ACCEPTABLE MEANS OF SUPPORT UNDER CONCENTRATE POINT LOADS FROM LVL AND STEEL BEAMS OR WHERE "S.B" IS INDICATED ON THE PLAN.
12. FASTEN ALL TRIPLE PLY LVLs TOGETHER WITH TWO ROWS OF 5" LONG TRUSSLOK OR SIMPSON SDS SCREWS @ 16" O.C. AND FOUR PLY LVLs WITH TWO ROWS OF 6½" TRUSSLOK SCREWS @ 16" O.C. UNLESS NOTED OTHERWISE ON THE PLANS. THE SCREWS SHALL BE LOCATED A MINIMUM OF 2" AND A MAXIMUM OF 3" FROM THE TOP OR BOTTOM OF THE BEAM.
13. FASTEN FIRST KING STUD TO LUMBER HEADER WITH AT LEAST THREE 16D (3½"X0.162") IN EACH PLY.
14. **JACK AND KING STUD SCHEDULE AT WALL OPENINGS**
TO BE INSTALLED AT EACH END OF OPENING UNLESS OTHERWISE NOTED AS "KJ" OR "HK" ON PLAN)
SPANS UP TO 4'-0" ..... 1 JACK, 1 KING
SPANS >4'-0" TO 5'-6" ..... 1 JACK, 2 KINGS
SPANS >5'-6" TO 6'-6" ..... 2 JACK, 3 KINGS
SPANS >6'-6" ..... SEE PLAN



Acknowledgement Of Plans Submittal ONLY!

Date 9/3/2021.

Date 10/6/21

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Township/County
TOWNSHIP
COUNTY

Engineer

Stamp/seal

Project name/owner
THE BANYAN 1662 PLAN
ELEVATION A

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Date
December 11, 2020

Drawn by
MWH

Reviewed by
CAD

Plan set scale
24x36 sheet
1/4" = 1'-0"
11x17 sheet
1/8" = 1'-0"

Project/plan code
XX.XX.XXXX

Drawing set
FOR CONSTRUCTION

Sheet title/description
FIRST FLOOR PLAN

Sheet no.
A3.0

Master plan version
v1.0