ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 322709

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

PIN # 4775 -91 -8724.

APPLICANT/OWNER: K+T Properties V LLC APPLICANT ADDRESS: 141 Cedarwoods Dr Mooresville NC 28117

SITE ADDRESS: 120 Elmwood Rd Statesville NC 28625 PHONE: 704-235-8489 ALT. PHONE —

SITE DIRECTIONS: Mooresville Hwy Turn Onto Elmwood Rd. SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Woodstone Estates SECTION: — LOT # 4 LOT AREA: .51 AC DESIGN FLOW: 360 L.T.A.R.: .25

Septic Tank 1000 (gal) STB 760 Date 12-27-21 ☑ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI

Pump Tank 1000 (gal) PT 3603 Date 12-13-21 System Description: PM - 25% Reduction

Pump Make Geo Lots Model PE51 Serial # Repair System Description: Drip

Nitrification Fields 1 # Lines 6 Linear Ft 360 Maintenance Agreement Required: ☐ YES ☒ NO

Trench Width 36in Trench Bottom Depth(Low side) 24in Gravel Depth — ☐ GRAVITY ☒ PRESSURE

☒ Residence No. Bedrooms 3 ☐ Business No. Persons 6 ☐ Other No. Employees — ☒ Slab ☐ Crawl Space ☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☐ Private ☒ Public ☐ Community

Comments / Conditions: * Abandon Well on Lot 5 prior to AK * WELL ABANDONED 12-11-2021

2/24/22 Red Filter, tanks 2ft off house Checked Supply lines & drainlines (Quick4)

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# 1231 Dated Nov 29th, 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.

3/22/23 - PM - Pressure Head / Floats

	Date	Initials
Drain Lines Checked	2-23-22	DW
Tanks Checked	2-23-22	DW
Pressure Manifold or Valve Box Checked	6-202022	BW
Pressure Head Set	3-22-23	BB
Electrical Checked	6-20-2023	BW
Floats Set	3-22-23	BB
Alarm Checked	6-20-2023	BW
Maintenance Contract Y/N	Not Required	
Comments:		

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**

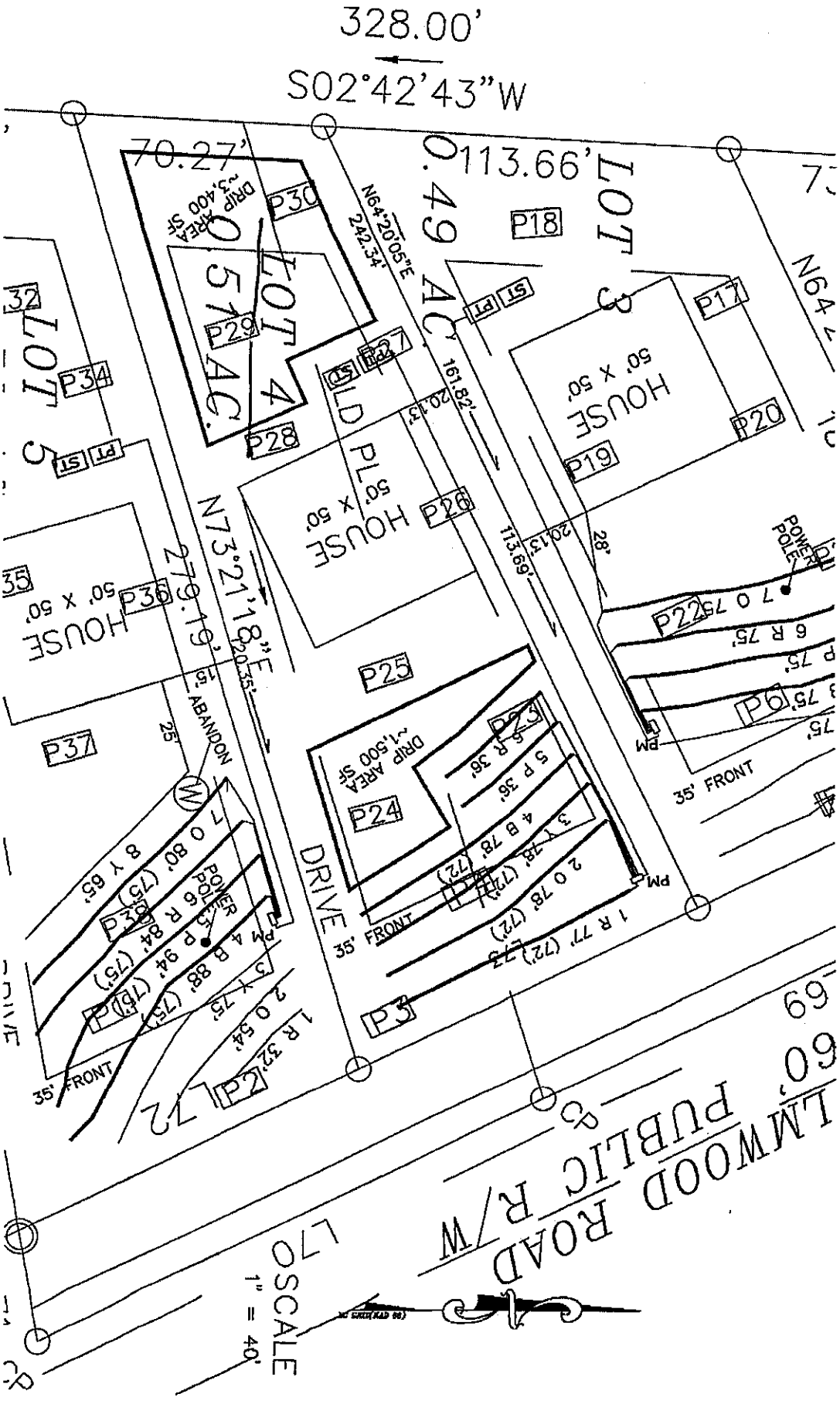
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☒ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☐ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Date: 12/5/21 Installed by: (Tommy) Frye Grading & Repair Inc

IMPROVEMENT PERMIT by: Date: 12-10-2021 OPERATION PERMIT by: Date: 6-202022

AUTHORIZATION TO CONSTRUCT by: Date: 1-3-2021 Existing System Inspected by: Date:

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


328.00'
S02°42'43"W
70.27'
113.66'
LOT 4
0.57 AC.
LOT 5
0.49 AC.
LOT 6
N64°20'05"E
242.34'
DRIP AREA ~3,400 SF
P30
P29
P28
P27
P18
P17
P20
P19
P26
P25
P24
P23
P22
P6
P34
P36
P37
P38
P3
P2
HOUSE
50' X 50'
OLD PL
N73°21'18"E
279.19'
161.82'
113.69'
20.13'
28'
20.35'
15'
25'
ABANDON
DRIP AREA ~1,500 SF
POWER POLE
35' FRONT
LMWOOD ROAD
PUBLIC R/W
OSCALE
1" = 40'

PRESSURE MANIFOLD SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	K + T Properties V, LLC
Address:	141 Cedar Woods Drive Mooresville, NC 28117
Phone:	704.235.8489
County:	Iredell
Location:	Woodstone Estates - Lot 4

Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	360 gpd
System Flow:	35.55

Design Specifications

Drainfield Size:	360
Loading Rate:	0.25
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Max Trench Depth (LOW SIDE):	24 in. Repair Trench Depth 6 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	165
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	28.71
Dosing Volume:	176.31
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:	5.00
Elevation Head:	11.00
Total Dynamic Head:	20.70
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.

Woodstone Estates - Lot 4
PRESSURE MANIFOLD DESIGN

DESIGN FLOW:	360	
SOIL APPLICATION RATE:	0.25	
TOTAL AREA TRENCH BOTTOM:	1080	
TOTAL LATERAL LENGTH:	360	
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	360	
SUPPLY LINE LENGTH:	165	
TOTAL DYNAMIC HEAD:	20.70	
MANIFOLD SIZE:	4 in.SCH 80 PVC	
DOSING VOLUME:	176.31	
PUMP TANK DRAW DOWN*:	8.4	
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 - Woodstone Estates Lot 4

Project #: 21-0018

LAYOUT FOR 3 BEDROOM HOME

November 29, 2021

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
HOUSE					895.30		
PUMP TANK					893.00		
INSTR. 1							
1	***RED***				***899.00***	*77*	*72*
2	***ORANGE***				***898.50***	*78*	*72*
3	***YELLOW***				***898.20***	*78*	*72*
4	***BLUE***				***897.90***	*78*	*72*
5	***PINK***				***897.60***	*78*	*36*
6	***RED***				***897.20***	*76*	*36*
7	DRIP REPAIR					4900 SF	4900 SF
					Total	465	360

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	*360*	*0.250*	*ACCEPT.*	*0.250*	*25% RED*	*PRESSURE MANIFOLD*
Repair	~4,900 SF	0.100	INNOV	0.100	DRIP IRRIGATION	LOW PRESSURE

Notes: **All measures in feet

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

**Nitrification lines were located by GPS.

PRESSURE MANIFOLD TAPSHEET - Woodstone Estates Lot 4

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/Tap	Trench Area	Line LTAR
1	*RED*	*899.00*	*72*	SCH 40 1/2	7.11	216	0.16
2	*ORANGE*	*898.50*	*72*	SCH 40 1/2	7.11	216	0.16
3	*YELLOW*	*898.20*	*72*	SCH 40 1/2	7.11	216	0.16
4	*BLUE*	*897.90*	*72*	SCH 40 1/2	7.11	216	0.16
5/6	*PINK/RED*	*897.60*	*72*	SCH 40 1/2	7.11	216	0.16

total	feet =	360	gal/min =	35.55
		Des. Flow	360	
		Pump Run=	4.96	
		soil LTAR	0.25	
		LTAR +5%	0.2625	
		LTAR with ACCEPTED	0.333333333	
		LTAR with ACCEPTED + 5%	0.35	

CALCULATIONS

Location Woodstone Estates Lot 4

Project Number 21-0018

Lot No: 4

No. of Bedrooms 3

Design Flow 360 $^{gal}/_{day}$

LTAR 0.250 $^{gpd/ft^2}$

25% RED.? (YES OR NO) YES

Supply Line Length 165 ft.

Supply Line Volume 28.71 gal.

Required Feet of Line 360 ft.
Amount of Line from Layout 360 ft.

Gallons per Minute 35.55 $^{gal}/_{min}$

Required Septic Tank Capacity 1000 gal.
Minimum Standard Tank Size 1000

Lateral Line Volume 235.08 gal.

Dosing Volume 176.31 gal.

Note: Dosing Volume based on 75% of lateral line volume

Tank Draw Down 8.4 *Generic Draw Down of 21 gal.per in.*

Pump Run Time 4.96 minutes

Elevation Head 11 ft.
Pressure Head 2 ft.
Friction Factor 3.03 ft./100 ft. *(From the interpolater.)*
Friction Head 5.00 ft.

Total Dynamic Head (+15%) 20.70 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

PROPERTY ID #: 4775918724
COUNTY: Iredell

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

OWNER: KST Properties V LLC
ADDRESS: 141 S LONGFELLOW LN, MOORESV, NC 28117
PROPOSED FACILITY: 3 BR
LOCATION OF SITE: 120 Elmwood Rd, Statesville NC 28625 Lot 4
APPLICATION DATE:
DATE EVALUATED: 7/13/21
PROPOSED DESIGN FLOW (.1949): 360 gpd
PROPERTY SIZE: 0.51 ac
PROPERTY RECORDED: Pos

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	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
P3	L/5%	0-9	BSCL wfsbk	FrSSSPSEXP		62	-	-	PS 0.3
		9-62	BRCL wmsbk/Abk	" " " "					
P4	L/4%	0-6	Gravel		- comp - 10"	56	-	-	PS 0.275
		6-14	RBCL wmsbk	FrSSSPSEXP					
		14-22	RBCL wmsbk/Abk	" " " "					
		22-48	BRCL wmAbk/sbk	" " " "	- FeZhpl				
		48-62	RBCL wmsbk	" " " "					
P23	L/3%	0-4	Gravel			52	-	-	PS-48 0.25
		4-13	RBSCL wfsbk	FSJSP SEXP	- Faded/ 20-58" chr 2.5@10				
		13-56	BRCL wmsbk/Abk	FrSSPSEXP					
P24	L/3%	0-7	BSCL wfsbk	FrSSSPSEXP	- C Fe Dep/ (20-30) chr 2.5 @ 24-30	60	-	-	PS-24 0.1
		7-30	RBCL wmAbk	" " P "					
		30-60	RBCL wmsbk	" " SP "					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Accepted	Innov. Subsurface Irrig.
Site LTAR	0.25	0.1

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. Ashley Rillos
OTHER(S) PRESENT: C. Wagner

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

PROPERTY ID #: Same
DATE OF EVALUATION: /
COUNTY: V.

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
P 28	L/4%	0-5	Bscl wfsbk	FrSSSPSExP	-Comp. -C Fe depl. 5-21" -chr 2's 21-28" -fSFeDepl	67	—	—	PS-21 0,1
		5-36	RBciwfAbk	" " " "					
		36-67	RBcwmsbk/Abk	F SS P SExP					
P 29	L/4%	0-10	Bscl wfsbk	F. SS SP SExP	-cFeDepl 21-58" -chr 2's 26-35" -fsap	61	—	—	PS-26 0,1
		10-16	RBCl wfsbk	" " " "					
		16-38	RBCwfAbk	" " P "					
		38-61	RBCwmsbk	" " SP "					
P 30	L/4%	0-17	Bscl wfsbk	FrSSSPSExP	-FeDepl -C FeDepl -Chr 2's 30-54"	66	—	—	PS-30 0,1
		17-29	RBscwmsbk/Abk	" " " "					
		29-40	BRwfAbk/sbk	" " P "					
		40-66	BRcwmsbk	" " SP "					

COMMENTS: _____

LOT #4

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 21-0018
November 29th, 2021

K + T Properties V, LLC
Attn: *Pete Denicola*
Email: pete@peconicbayhomes.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence on Lot 4 Woodstone Estates Subdivision, 0.51 ac Parcel, PIN# 4775918724, Elmwood Road, Statesville, NC 28625.

Mr. Denicola:

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 cleared and had an existing well and septic. **The well on Lot #5 must be properly abandoned**. Topography within the evaluated area was gently 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 GPS/tape measures 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. Any 2 foot cuts or greater upslope of the house may nullify this design.

Methodology

We evaluated soil areas through the use of backhoe pits. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with ten backhoe pits on the property flagged and located via GPS. Seven of the ten backhoe pits 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 was performed using a laser level. The Drip Repair Area is based on square footage of usable soil. Pin flag locations of the layout were located via GPS and tape measures. Detailed system & repair information is summarized in the following paragraph for this Lot. Existing well Abandonment will be required.

Woodstone Estates Lot 3 *(See Attached Design)*
The septic layout for this lot (9' centers) yielded a total of 522 linear feet of line. The primary system is proposed as 300 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 222 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. Trench depth (LOW SIDE) is specified at 30 inches.

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 Jennifer Klink
Signature _____ 11/15/21

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 Lot 3 of Woodstone Estates Subdivision 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 3 bedroom single family residence on Woodstone Estates Subdivision Lot 4, (PIN #: 4775918724), Statesville NC, 28625.

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---------- 9-11

Application---------- 12-13

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

Green Sheet---------- 15

November 29, 2021
Project No. 21-0018
Design By: Soil & Forestry Services of the Carolinas, PA

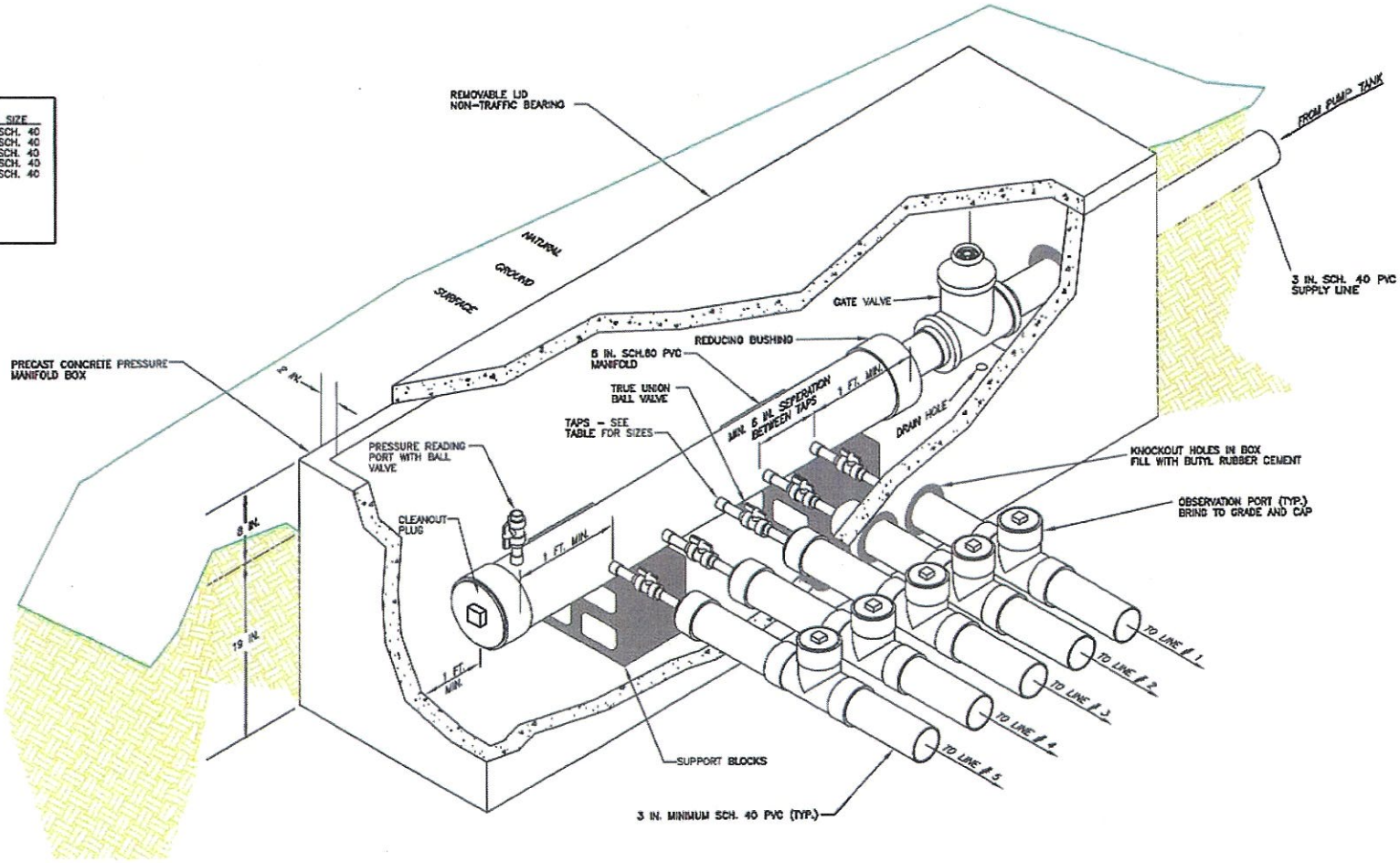
INFORMATION FOR THE INSTALLER:

- 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 an Innovative Subsurface Drip Irrigation installation.
- Rake trench walls, lime sidewalls, install trenches 36" wide and have no more than 1/4" fall in 10 feet.
- **Properly abandon well on Lot #5.**

PRESSURE MANIFOLD DETAILS
FOR
WOODSTONE ESTATES SEPTIC SYSTEM

TAP SIZES

LINE No.	TAP SIZE
1	1/2" SCH. 40
2	1/2" SCH. 40
3	1/2" SCH. 40
4	1/2" SCH. 40
5	1/2" SCH. 40



RECEIVED DEC 1 - 2021

Session Law - Paid $1,200.00

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

AP- 322709

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: K+T Properties V LLC **Address:** 141 Cedar Woods Dr., Mooresville NC **Zip:** 28117
Applicant Email: pete@peconicbayhomes.com **Phone:** 704-235-8489 **Alt. Phone:**
Owner Name: Same **Address:** Same **Zip:** Same
Owner Email: Same **Phone:** Same **Alt. Phone:**

Property Information:

Street Address: 120 Elmwood Rd, Statesville NC
Subdivision Name: Woodstone Estates **Section/Phase:** 1 **Lot Number:** 4
Driving Directions: Mocksville Hwy, Barry Oak Rd, Elmwood 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: 3
Maximum Number of Occupants: 6
( ) 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: Accept-able

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: Samuel A Tallman 11/29/21
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, KEVIN KLINK / K & T PROP V, am the legal owner(s) of the property located at 120 ELMWOOD RD, STATESVILLE NC, identified as PIN (Parcel Identification Number) 4775918724, located in Iredell County, North Carolina.

I do hereby authorize **(print legal representative/company name)** PETER DENICOLA / PDM PROPERTIES LLC, 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.

	10/19/21		10/19/21
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

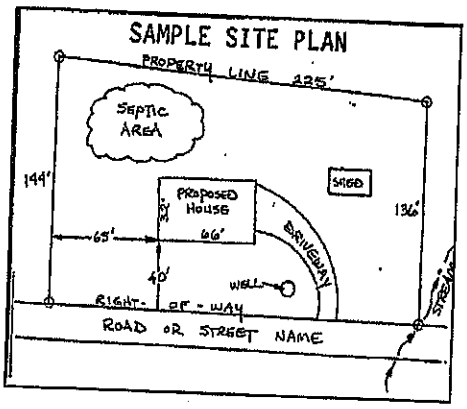
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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

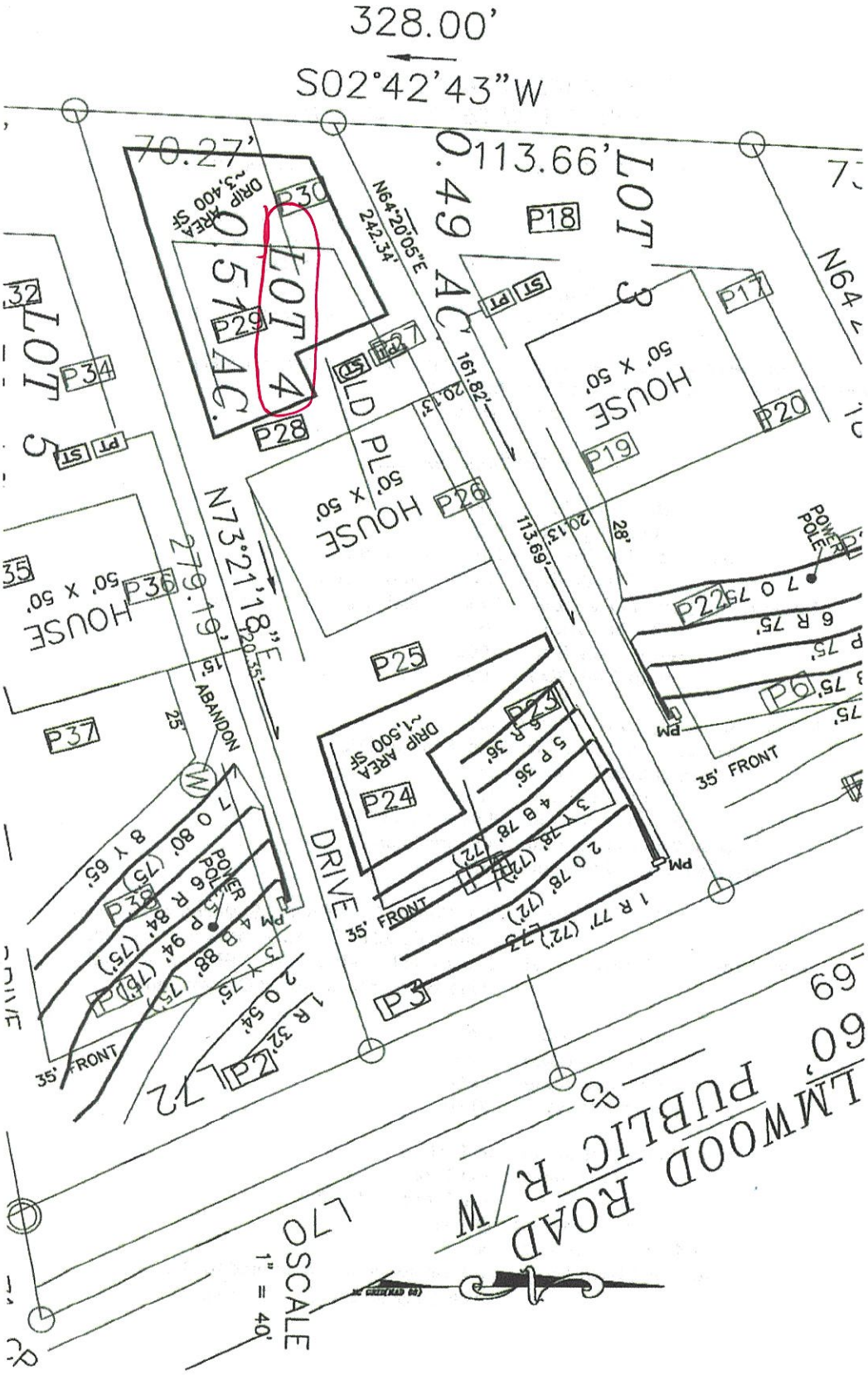
See Attached

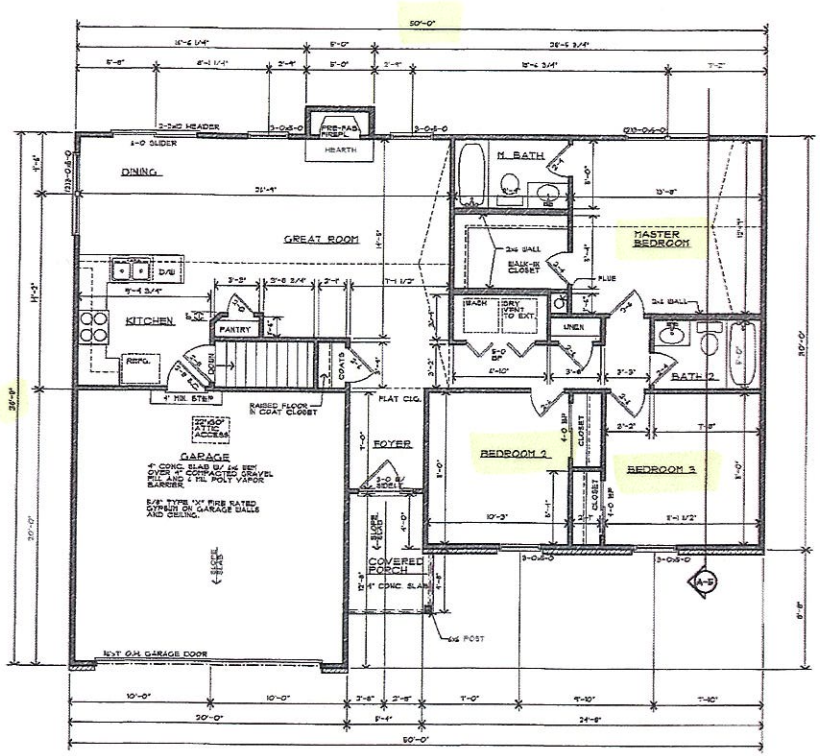
Signature: Samuel A Tollie

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

11/29/21

DATE


328.00'
S02°42'43"W
70.27'
0.51 AC.
LOT 4
P30
P29
P28
DRIP AREA ~3,400 SF
N64°20'05"E 242.34'
0.49 AC.
LOT 3
113.66'
P18
P17
P20
P19
P27
P26
OLD PL
50' x 50'
HOUSE
161.82'
20.13'
113.69'
28'
N73°21'18"E 279.19'
20.35'
P25
P24
DRIP AREA ~1,500 SF
P23
P22
P6
35' FRONT
P37
P36
P35
P34
P32
LOT 5
25'
15' ABANDON
P39
P38
P3
P2
L72
L70
DRIVE
POWER POLE
PM
LAKEWOOD ROAD
60' PUBLIC R/W
1" = 40'



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

1271 SQ. FT. HEATED LIVING SPACE

FLOOR PLAN NOTES:

1. ALL EXTERIOR WALLS ARE AT THICK (INCLUDING BRICK AND SHEATHING) AND ALL INTERIOR WALLS ARE 4 1/2" THICK UNLESS OTHERWISE NOTED ON FLOOR PLANS.

2. ▭ DENOTES 3x3x4 POST UNLESS OTHERWISE NOTED ON FLOOR PLANS. PROVIDE SOLID BLOCKING BELOW ALL POSTS TO FOUNDATION

3. NAILING SCHEDULE FOR BUILT-UP COLUMNS

THREE 2x4 LAMINATIONS WITH ONE ROW OF STAGGERED 30d COMMON WIRE NAILS (D= 0.207", L= 4 1/2") THREE 2x6 LAMINATIONS WITH TWO ROWS OF 30d COMMON WIRE NAILS (D= 0.207", L= 4 1/2")

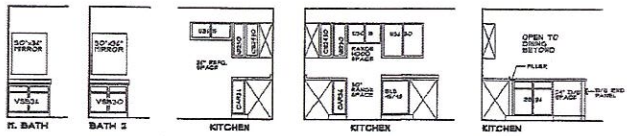
ALL NAILS PENETRATE AT LEAST 3/4 OF THE THICKNESS OF THE LAST LAMINATION

4. FOR NO.1/2.2 LAMINATED WOOD BEAM MEMBERS, REFER TO MANUFACTURER'S NAILING/BOLTING SPECIFICATIONS FOR TOP AND SIDE LOADING CONDITIONS.

5. ALL INTERIOR DOOR HEADERS ARE 2x2x16 W/ 1/2" PLYWOOD BETWEEN. ALL EXTERIOR DOOR AND WINDOW HEADERS ARE 2x2x16 W/ 1/2" PLYWOOD BETWEEN UNLESS OTHERWISE NOTED ON PLANS. ALL HEADER LUMBER SHALL BE DFP #1 OR EQUAL.

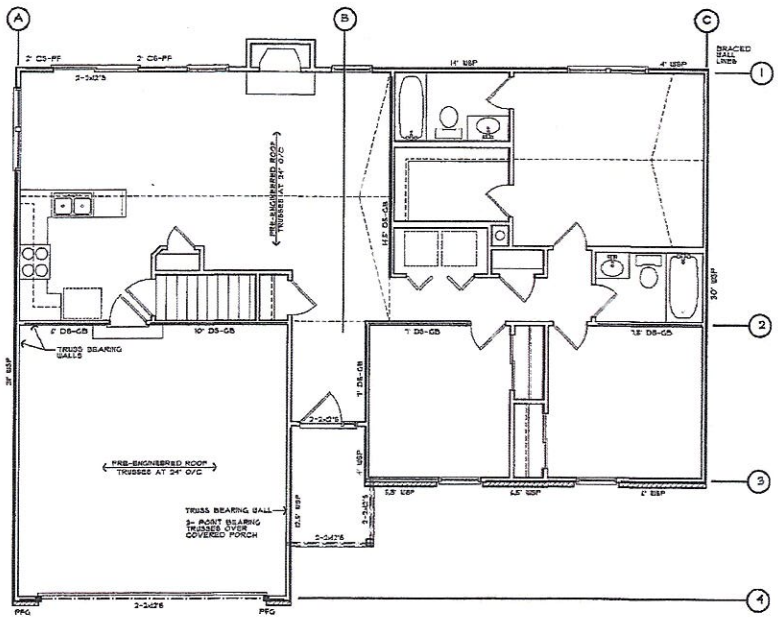
6. WINDOW SIZES SHOWN ARE THOSE OF ANDERSEN WINDOWS. SET TOPS AT 6'-8" ABOVE FLOOR.

7. DRIVEWAY AND SIDEWALK DESIGN AND MATERIAL SELECTION BY OWNER/CONTRACTOR.



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

NOTE:
FINAL CABINET SIZES AND SELECTIONS TO BE DETERMINED BY OWNER/CONTRACTOR UPON FIELD VERIFYING ALL MEASUREMENTS PRIOR TO ORDERING CABINETRY.



1ST FLOOR BRACED WALL LINE METHOD AND STRUCTURAL PLAN
SCALE: 1/4" = 1'-0"

RESIDENTIAL LATERAL SYSTEM LEGEND

ABBREVIATION	METHOD
WSP	WOOD STRUCTURAL PANEL
CS-WSP	CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL
GB-PF	CONTINUOUSLY SHEATHED PORTAL FRAME
GB-GB	DOUBLE SIDED GYPSUM BOARD
PFG	PORTAL FRAME GARAGE
PFH	PORTAL FRAME WITH HOLDOWN

Acknowledgement Of Plans Submittal ONLY!

Date 11-3-2021

Date

Quest allied has gone into the design and engineering of these plans. However, due to the impossibility of providing any on-site supervision over the actual construction, the variance in local codes requirements and other local building and weather conditions, Residential Design Services, Inc. assumes no responsibility for any damages, including structural failures, due to any deficiencies, omissions or errors in these plans.
Furthermore, should soil and/or weather conditions (i.e. hurricane, earthquake, snow, etc.) cause loads other than those indicated in the building specifications, or for any other unusual conditions, it is recommended that you consult with local building officials and a local architect or engineer prior to beginning construction.

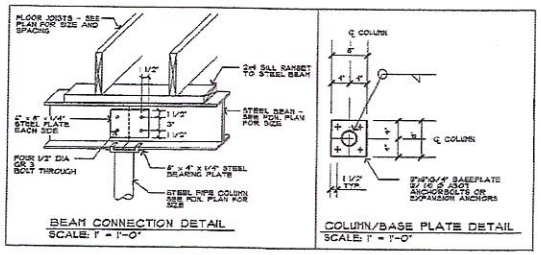
RESIDENTIAL DESIGN SERVICES
RESIDENTIAL DESIGN SERVICES, INC
16502 FAIRFIELD FARM DRIVE
CHESTERFIELD, MO 63017
314-434-1624
NOT A REGISTERED ARCHITECT
www.JustGreatHousePlans.com • www.JustGaragePlans.com

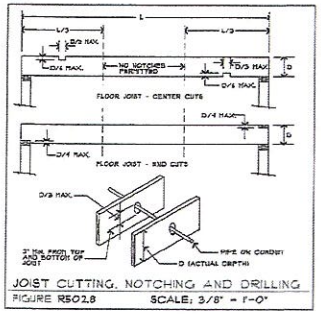
PLAN NO. 2002

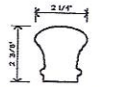
COPYRIGHT 2002

DATE: 11/8/99

SHEET: 3 of 6



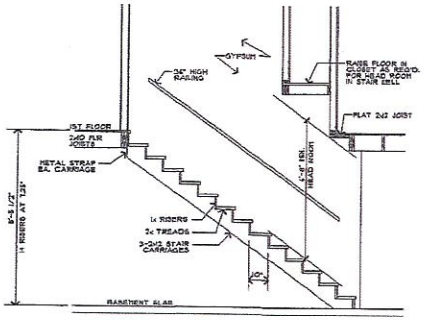




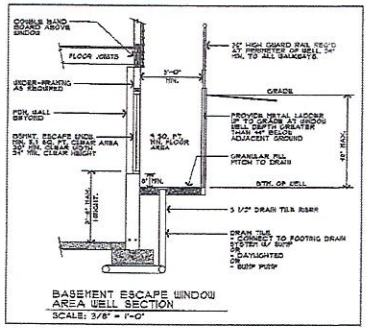
HANDRAIL DETAIL
NOT TO SCALE

STAIR NOTES:

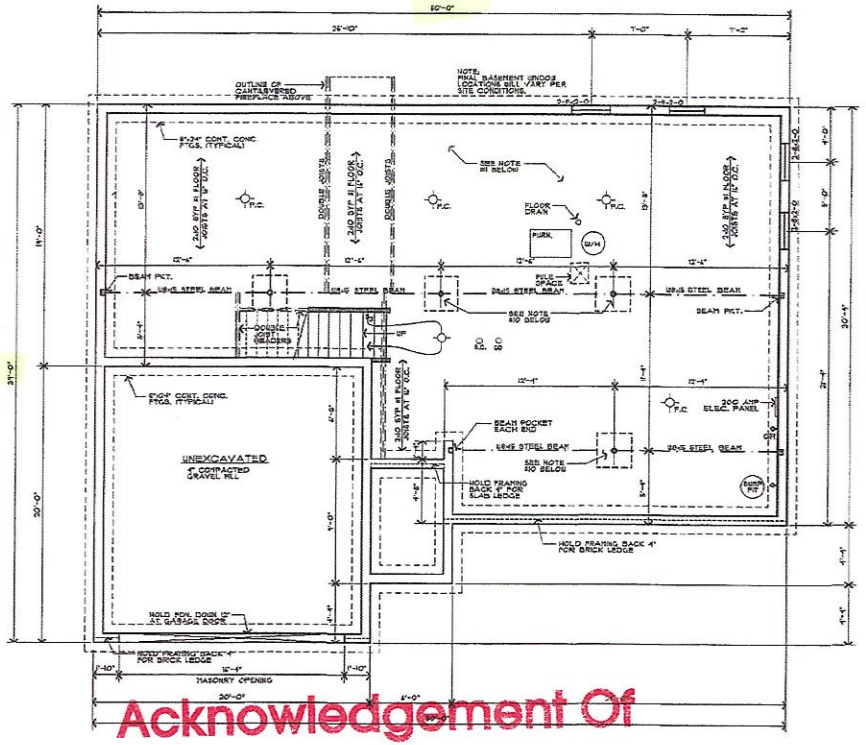
1. HANDRAILS SHALL MEET EITHER OF THE FOLLOWING CRITERIA:
   A. CIRCULAR CROSS SECTION WITH A MINIMUM DIAMETER OF 1 1/4" BUT NOT MORE THAN 2".
   B. OTHER APPROVED SHAPES HAVING A MAXIMUM GRIPABLE HORIZONTAL WIDTH OF 2 1/4", MAXIMUM GRIPABLE PERIMETER DIMENSION OF 6 1/4", AND/OR MINIMUM 3" EASEMENTS PERIMETER DIMENSION.
2. OPEN GUARD RAILS AND STAIR HANDRAILS SHALL HAVE INTERMEDIATE VERTICAL BALUSTERS SPACED LESS THAN 4" APART. HORIZONTAL RAILS, RAILS PARALLEL TO STAIR TREADS, AND ORNAMENTAL PATTERNS THAT PROVIDE A LADDER EFFECT ARE PROHIBITED.
3. STAIR WINDERS MUST HAVE A MINIMUM TREAD DEPTH AT A POINT NOT MORE THAN 12" FROM THE NARROW END AND 10" AT LEAST 4" IN DEPTH AT THE NARROW END.
4. FINAL STAIR AND RAILING DESIGN BY OWNER/CONTRACTOR AS PER ALL APPLICABLE BUILDING CODES.



A-2 STAIR SECTION
SCALE: 3/8" = 1'-0"



BASEMENT ESCAPE WINDOW
AREA WELL SECTION
SCALE: 3/8" = 1'-0"



NOTES:

1. 8" CONC. FOUNDATION WALL 8' HIGH U.N.O. ON PLANS
2. 8" CONC. FOOTING 16" WIDE BY 8" DEEP U.N.O. ON PLANS
3. FURNACE AND WATER HEATER LOCATIONS TO BE DETERMINED BY CONTRACTOR
3. SHADED EXTERIOR BASEMENT WALLS INDICATE FRAME WALL OF 2x6 STUDS AT 16" O.C. HEIGHT OF FRAME WALL WILL VARY.
4. PROVIDE R-19 INSULATION IN ALL FLOOR SPACES CANTILEVERED OR OVER HEATED SPACES
5. ALL STEEL BEAMS SHALL BE PRIMED WITH RUST PROHIBITIVE COATING
6. IF SHIMMING OF BEAMS IS REQUIRED, STEEL SHIMS SHALL BE USED
7. GROUT SOLID ALL CMU BLOCK CAVITIES.
8. PROVIDE BRIDGING AT ONE-THIRD INTERVALS BETWEEN ALL FLOOR JOISTS WITH SPANS GREATER THAN 8 FEET. PROVIDE BRIDGING AT MID-SPAN FOR ALL OTHERS.
9. SEE WINDOW SILL DETAIL THIS SHEET IF EGRESS WINDOW IS REQUIRED IN BASEMENT. EGRESS WINDOW LOCATION BY OWNER/CONTRACTOR.
10. 6 1/2" DIA. STEEL COLUMN SET ON 30"x30"x12" THICK CONCRETE FOOTING W/ 3-#3 REBARS EACH DIRECTION.
11. 4" CONCRETE SLAB W/ 6x6 WWF OVER 4" COMPACTED GRAVEL FILL AND 6 MIL POLY VAPOR BARRIER. SLOPE SLAB TOWARDS FLOOR DRAIN.

Acknowledgement Of Plans Submitted ONLY!
Date
1-3-2021

Great effort has gone into the design and engineering of these plans. However, due to the impossibility of providing any on-site supervision over the actual construction, the variance in local code requirements and other local building and weather conditions, Residential Design Services, Inc. assumes no responsibility for any damages, including structural failures, due to any deficiencies, omissions or errors in these plans.
Furthermore, should soil and/or weather conditions (i.e. hurricane, earthquake, sonic, etc.) cause loads other than those imposed in the Building Specifications, or be any other unusual conditions, it is recommended that you consult with local building officials and a local architect or engineer prior to beginning construction.

RESIDENTIAL DESIGN SERVICES
RESIDENTIAL DESIGN SERVICES, INC.
14602 FAIRFIELD FARM DRIVE
CHESTERFIELD, MO 63017
314-434-1524
NOT A REGISTERED ARCHITECT
www.LetsBuildYourHouse.com - www.LetsDesignYours.com

PLAN NO. 2002

COPYRIGHT 2021

DATE: 11/8/99

SHEET: 2 of 6

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

APPLICATION NUMBER

322709
Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4775918724.000	120 ELMWOOD RD	Iredell County

Owner Information	Applicant Information
Name: K+T PROPERTIES V LLC	Name: PDM Properties LLC
Address:	Address: 127 Bluff Meadow Lane
	Mooresville, NC 28115
Phone:	Phone: (704)235-8443

Use Requested	Zone Code
Single Family Dwelling	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0.51	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: 10/29/2021

Signature of Owner/Contractor

Permit Number	322709

TOTAL FEES:	$77.25