IRHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625

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

PERMIT # AP 325605

PIN # 4762 -- 03 -- 7028

APPLICANT/OWNER: Ridgewater Construction APPLICANT ADDRESS: Po Box 4211 Mooresville, NC 28117

SITE ADDRESS: 184 Bevis Lane Statesville, NC PHONE: ALT. PHONE 704-657-4876

SITE DIRECTIONS: I-77 North exit 45 @ Amity Hill Rd Rt on Shiloh Rt Clements Rd on Bevis SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Loyd Acres SECTION: 2 LOT # 2 LOT AREA: .46 Ac DESIGN FLOW: 360 L.T.A.R.: .30

Septic Tank 1000 (gal) STB 760 Date 5/11/22

Pump Tank 1000 (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 5 Linear Ft 300

Trench Width 36 in Trench Bottom Depth(Low side) 34 in low Gravel Depth –

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

System Description: Pump to Serial Distribution - 25% Red

Repair System Description: PPDPS - 50% Reduction.

Maintenance Agreement Required: ☐ YES ☒ NO

☐ 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: No Foundation Drain to be along House Keep System out of Powerline R.O.W.

INITIAL SITE SKETCH

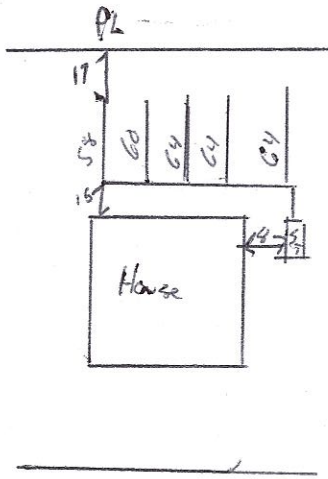
This permit is issued pursuant to Section 11 . (C) of S.L. 2018-114 using the signed and sealed LSS Evaluation by:

LFV Soil & Onsite Wastewater Consulting PLLC

LSS # 1080 Dated Feb 7, 2022.

AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.



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

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

Owner / Applicant Signature: Date: 2-28-2022 Installed by: Bowen Septic

IMPROVEMENT PERMIT by: Date: 2-25-2022 OPERATION PERMIT by: Matt Walker Date: 6/21/22

AUTHORIZATION TO CONSTRUCT by: Date: 2-25-2022 Existing System Inspected by: Date:

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

I, JOEL H. PATTERSON III, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; DEED DESCRIPTION AND/OR MAP BOOK SEE, PAGE NOTE #2; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK ___, PAGE ___; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600). WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS _____ DAY OF _____, 2022.

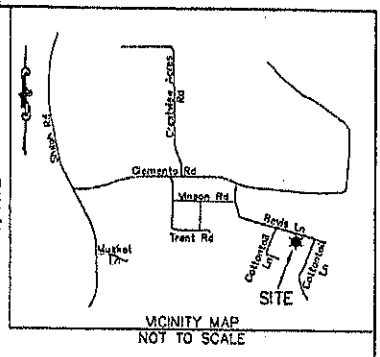
PRELIMINARY

JOEL H. PATTERSON III, PLS
LICENSE NUMBER: L-3717

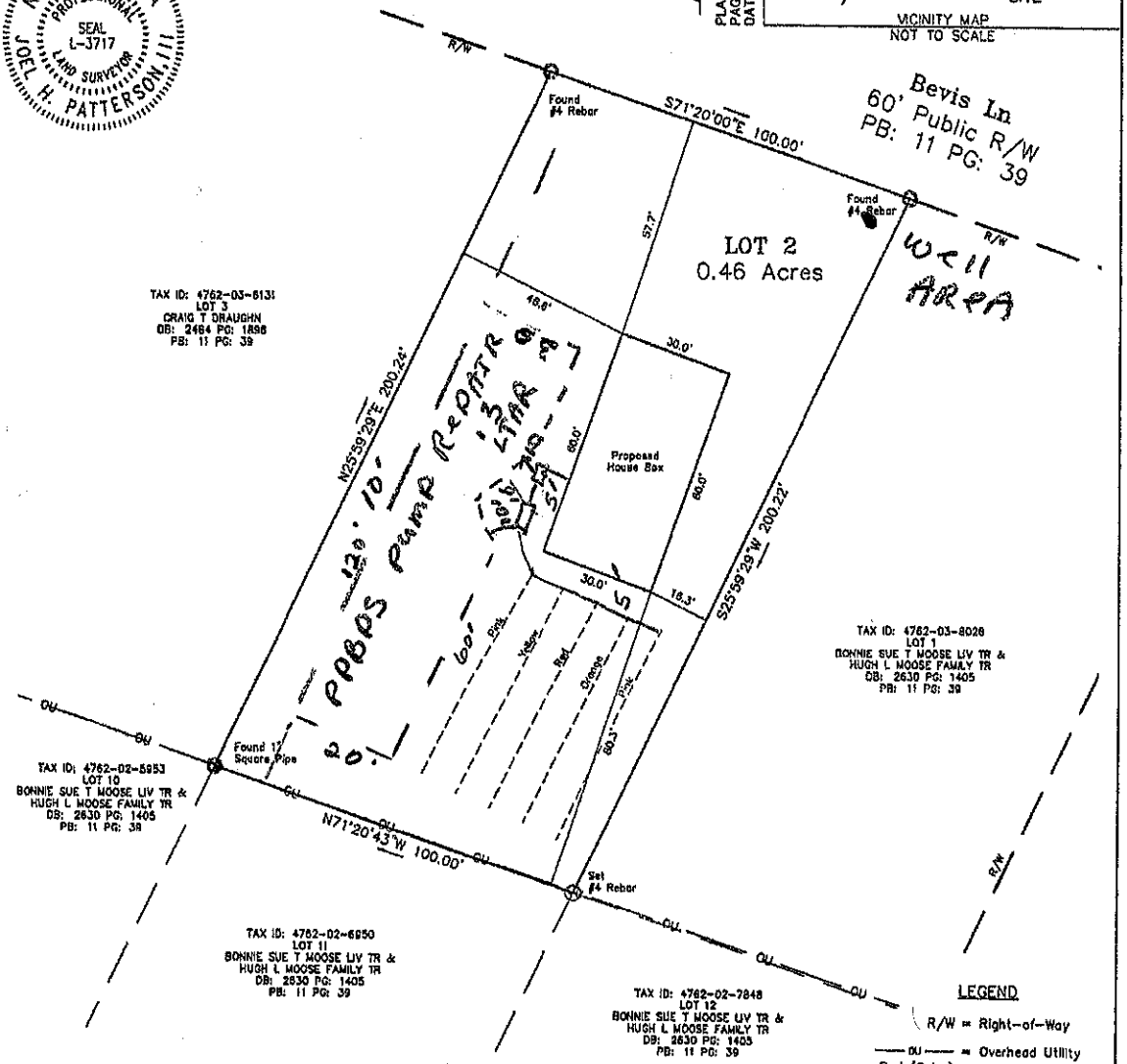
PRELIMINARY PLAN NOT FOR RECORDATION CONVEYANCES AND/OR SALES

NORTH CAROLINA PROFESSIONAL SEAL L-3717 LAND SURVEYOR JOEL H. PATTERSON, III

PLAT BOOK: 11
PAGE: 39
DATED: June 6, 1972



VICINITY MAP
NOT TO SCALE



LEGEND
R/W = Right-of-Way
—OU— = Overhead Utility
Red (Color) = Septic Lines
O = Iron Found
○ = Iron Set

GRAPHIC SCALE
30 0 15 30
(IN FEET)
1 inch = 30 feet

SURVEYOR NOTES

1. ALL DIMENSIONS SHOWN ARE IN US SURVEY FEET AND DECIMALS THEREOF AND ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE INDICATED. AREA BY COORDINATE METHOD.
2. THIS SURVEY IS BASED ON DEED BOOK 2630 PAGE 1405 AND PLAT BOOK 11 PAGE 39 AS RECORDED AT THE IREDELL COUNTY REGISTER OF DEEDS.
3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE EXAMINATION BY AN ATTORNEY. THE PROPERTY MAY BE SUBJECT TO RECORDED OR UNRECORDED RIGHTS-OF-WAY, EASEMENTS, RESTRICTIVE COVENANTS OR CONDITIONS NOT OBSERVED OR SHOWN HEREON.
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5. BASIS OF BEARINGS: PLAT BOOK: 11, PAGE: 39 - DATED: JUNE 13, 1972.
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8. THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.
9. THIS PROPERTY LIES IN FLOOD ZONE "X" AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL 3710478200J, WITH AN EFFECTIVE DATE OF MARCH 18, 2008.

PLOT PLAN
LOT 2 – LOYD ACRES – SECT. TWO
PLAT BOOK: 11 PAGE: 39

CHAMBERSBURG TOWNSHIP, IREDELL COUNTY, NC

Prepared For:
RIDGEWATER CUSTOM HOMES
P.O. BOX 4211
MOORESVILLE NC, 28115

PATTERSON LAND SURVEYING, P.A.
NC LICENSE #: C-3390
P.O. BOX 5010, MOORESVILLE, NC 28117
PHONE: 704-663-0110 EMAIL: pattersonlandsurveying@gmail.com

Drawn By: SAG	Checked By: JHP	Scale: 1" = 30'	Project No.: 21077
Tax Parcel: 4762-03-7028			
Date: January 25, 2022			Sheet No.: 1 of 1
File: 21077-Lot 2 Loyd Acres.dwg			

LEY
SOIL & Onsite Wastewater CONSULTING PLLC

(336)-608-9206 gyoung127@icloud.com
(336)-940-7672 geaster56@icloud.com
(704)-310-6529 Jll2663@gmail.com
NC Licensed Soil Scientist, NC Environmental Health Specialist

Date: February 7, 2022

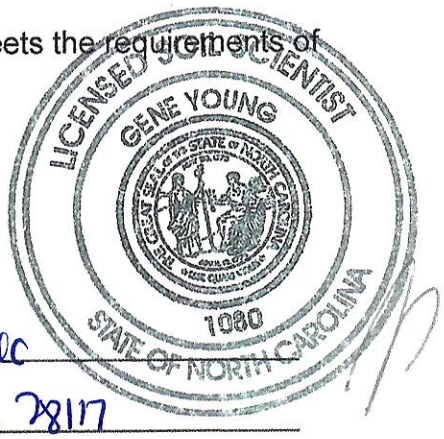
Project Name: Ridgewater Construction, PO Box 4211, Mooresville, NC

SESSION LAW 2018-114, SECTION 11.(c)/HOUSE BILL 374, SECTION 11.(c)
AUTHORIZATION FORM

LEY Soil & Onsite Wastewater Consulting has been contracted to evaluate soil, design and submit a septic system proposal to Iredell (county) on behalf of Ridgewater Construction (owner/applicant) for the property located at Loyd Acres Lot #2 4762-03-7028 (address/PIN).

The Licensed Soil Scientist (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).

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



Owner/Owners Legal Representative: Ridgewater Construction LLC
Mailing Address: P.O. Box 4211 Mooresville, NC 28117
Telephone Number: 704.657.4876
Email Address: Rachael@ridgewatercustomhomes.com

DESIGN SPECIFICATIONS

Owner:	RidgeWater Construction
Address:	PO Box 4211 Mooresville, NC 28117
Phone:	704-657-4876
County:	Iredell
Pin Number	4762-03-7028
Lot	2
Drainfield Design Flow (gpd):	360
Loading/Soil Application Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Total Lateral Length From Layout:	300
Total Lateral Length Required:	300
Trench Depth:	34 Low Side
Trench Width:	36 in.
Trench Spacing:	9 ft. on center
Trench Bottom Area:	1200
Repair Trench Spacing:	8
Repair Trench Depth:	32 in. Low side
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	20
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	3.48
Dosing Volume:	137.13
Pump Tank Draw Down:	6.5
Recommended Dosing Controls:	Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	NEMA 4X Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	3.48
Elevation Head:	14.00
Total Dynamic Head:	20.04
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 at Pressure Manifold
Check Valves:	In Tank
Anti-Siphon Hole:	NA

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

Comments: **Iredell County permission to change septic tank location and distribution type and from a pump system to a gravity fed system**

FIELD LAYOUT SPECIFICATIONS

LAYOUT FOR 3 BEDROOM HOME

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
HOUSE							
TANK							
1	*Pink*					*60*	*60*
2	*Yellow*					*60*	*60*
3	*Red*					*60*	*60*
4	*Orange*					*60*	*60*
5	*Pink*					*60*	*60*
6							
7							
8							
9							
10							
11							
12							
13							
15							
16							
					Total	**300**	**300**

	LINE LENGTH	SYSTEM TYPE	SOIL LTAR GPD/FT[1]	TRENCH SYSTEM	DISTRIBUTION	
* *System*	*300*	*ACCEPT.*	*0.300*	*25% RED.*	**Serial**	
Repair		MOD.	0.300	PPBPS		50% REDUCTION

Notes:

CALCULATIONS

Location Loyd Acres

Lot No: 2

No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.3	$^{gpd/ft^2}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	20	ft.
Supply Line Volume	3.48	gal.
Amount of Line Required	300	
Amount of Line from Layout	300	ft.
Gallons per Minute	#REF!	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Required Pump Tank Capacity	1000	gal.
Lateral Line Volume	195.9	gal.
Dosing Volume	137.13	gal.

Note: Dosing Volume based on 70% of lateral line volume

Tank Draw Down	6.5	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	#REF!	minutes
Elevation Head	14	ft.
Pressure Head	2	ft.
Friction Factor	3.48	ft./100 ft. *(From the interpolater.)*
Friction Head	0.70	ft.
Total Dynamic Head (+20%)	20.04	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 ____ of ____
PROPERTY ID #: ____
COUNTY: IREDELL

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

OWNER: RIDGEWATER HOMES APPLICATION DATE 11/17/21
ADDRESS: BEUIS LN. LOT # 2 STATESVILLE, N.C. DATE EVALUATED: 12/28/21
PROPOSED FACILITY: 3BR HSE PROPOSED DESIGN FLOW (.1949): 360 PROPERTY SIZE: 100'x200
LOCATION OF SITE: BEUIS LN. PIN # 4762037028.000 PROPERTY RECORDED: ____
WATER SUPPLY: (Private) Public (Well) Spring . Other ____
EVALUATION METHOD: (Auger Boring) . Pit . TYPE OF WASTEWATER: . (Sewage) . Industrial Process . Mixed

Landscape Position (1940)	L	L	L	L						
Slpoe%	<5%	<5%	<5%	<5%						
H 1 Depth (1943)	0-12	0-14	0-18	0-10						
H1 texture 1941	SL	SL	SL	SL						
H1 Structure 1941	GR	GR	GR	GR						
H1 Consistance 1941	FRSP	FRSP	FRSP	FRSP						
H1 Mineralogy 1941	SE	SE	SE	SE						
H 2 Depth (1943)	12-48	14-48	18-48	10-48						
H2 texture 1941	C	C	C	C						
H2 Structure 1941	Blky	Blky	Blky	Blky						
H2 Consistance 1941	FISP	FSP	FISP	FSP						
H2 Mineralogy 1941	SE	SE	SE	SE						
H 3 Depth (1943)			Yellow/							
H3 texture 1941			Brown/ mottles							
H3 Structure 1941			18-48							
H3 Consistance 1941										
H3 Mineralogy 1941										
H 4 Depth (1943)										
H4 texture 1941										
H4 Structure 1941										
H4 Consistance 1941										
H4 Mineralogy 1941										
LTAR	.3	.3	.2	.3						

Description	Initial System	Repair	Other Factors 1946
System Type	25%	50%	Site Classification PS
LTAR	.3	.3	

LICENSED SOIL SCIENTIST GENE YOUNG 1080 STATE OF NORTH CAROLINA

Evaluated by GARY EASTER LSS, JEFF LINK REHS

I, JOEL H. PATTERSON III, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; DEED DESCRIPTION AND/OR MAP BOOK SEE PAGE NOTE #2.; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK ___ PAGE ___; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600). WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS ____ DAY OF _____, 2022.

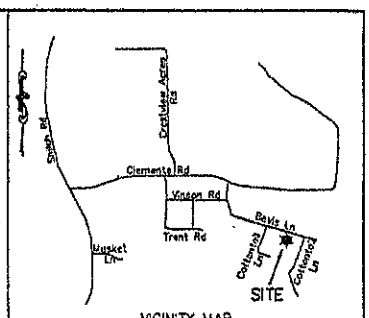
PRELIMINARY

JOEL H. PATTERSON III, PLS
LICENSE NUMBER: L-3717

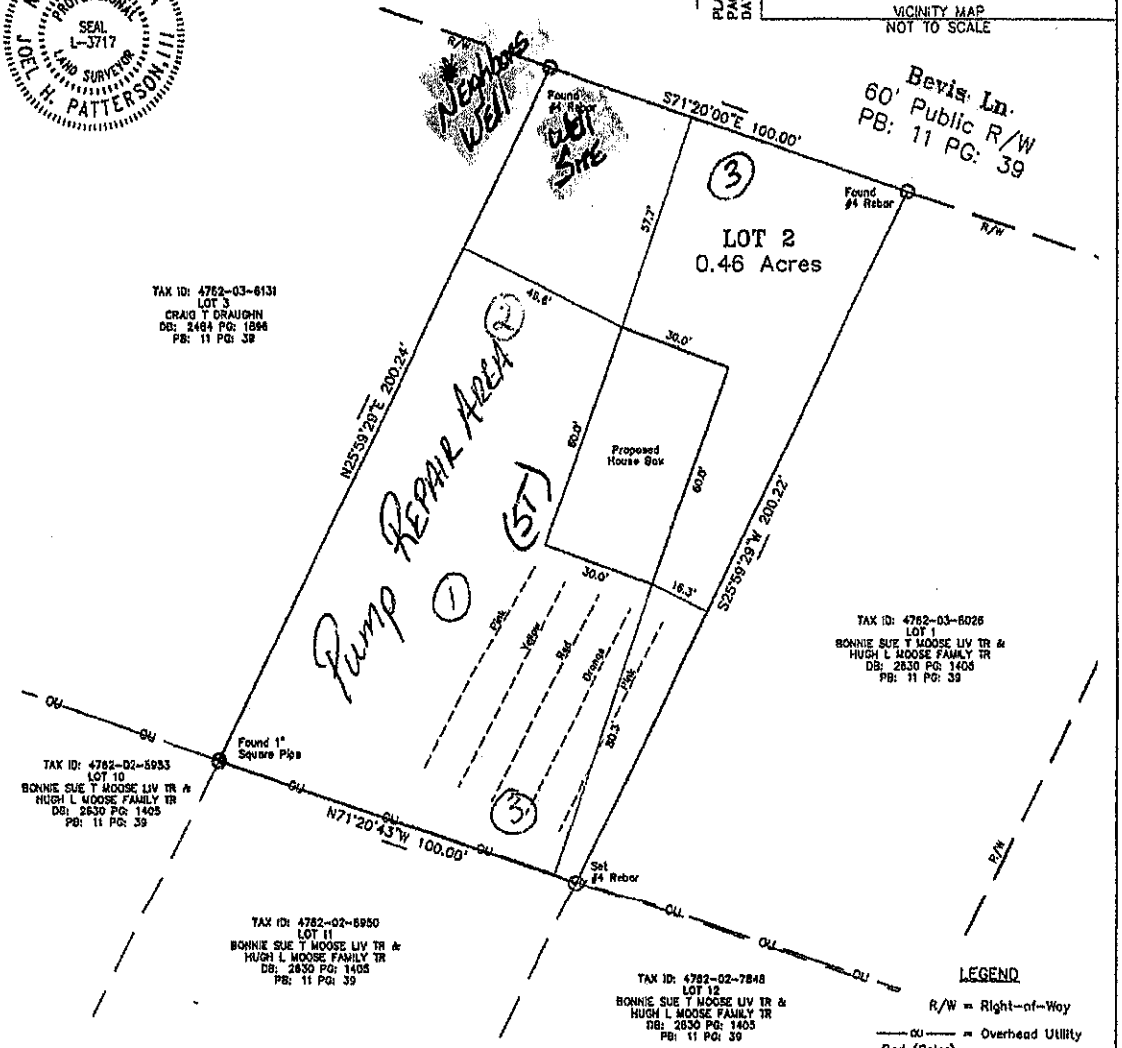
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NORTH CAROLINA PROFESSIONAL SEAL L-3717 LAND SURVEYOR JOEL H. PATTERSON III

PLAT BOOK: 11
PAGE: 39
DATED: June 6, 1972



VICINITY MAP
NOT TO SCALE



LEGEND
R/W = Right-of-Way
—OU— = Overhead Utility
Red (Color) = Septic Lines
O = Iron Found
O = Iron Set

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(IN FEET)
1 inch = 30 feet

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PLOT PLAN
LOT 2 - LOYD ACRES - SECT. TWO
PLAT BOOK: 11 PAGE: 39

CHAMBERSBURG TOWNSHIP, IREDELL COUNTY, NC

Prepared For:
RIDGEWATER CUSTOM HOMES
P.O. BOX 4211
MOORESVILLE NC, 28115

PATTERSON LAND SURVEYING, P.A.
NC LICENSE #: C-3390
P.O. BOX 5010, MOORESVILLE, NC 28117
PHONE: 704-668-0110 EMAIL: pattersonlandsurveying@gmail.com

Drawn By: SAG	Checked By: JHP	Scale 1" = 30'	Project No. 21077
Tax Parcel: 4782-03-7028			
Date: January 25, 2022			Sheet No. 1 of 1
File: 21077-Lot 2 Loyd Acres.dwg			

Installer Information

Be sure to read the permit very carefully before submitting bid.

The following details must be considered along with all other considerations:

- Tanks shall be approved by NC DHHS, and certification supplied by the manufacturer
- All tanks shall be properly back filled and compacted to prevent slump in the future
- The installer is responsible for final grades and returning that grade to original, with the exception of added structural features
- The supply trench shall be compacted to eliminate any cavities left during initial fill placement
- Installation of the system shall be completed during dry conditions in order to protect the soil structure
- All fittings shall be pressure rated fitting
- 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 weekdays in advance
- Trenches shall be carefully excavated so the bottom has no more than ¼" fall in 10 feet, with no high or low areas within. If high or low areas do exist after trench excavation, high areas should be removed rather than filling in low areas. **Do not over excavate trenches!** Any fine grading should be completed by hand with a rake and shovel, leaving no loose material.
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the rise.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral to prevent unwanted lateral water movement.
- 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 pin flag locations should be checked by the installer prior to beginning trenches to ensure accuracy
- If septic tank risers are used, they should be a minimum of 6" above finished grade or within 6" of final grade if buried
- Design precludes use of foundation drains on the residence

See Design Specification Sheet for Onsite Wastewater System information

- **If grading for slab foundation is utilized, do not grade/create greater than 2 feet of elevation difference within 15 feet of any component of the septic or repair. If back filling, do not backfill over any initial or repair septic line**

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

RECEIVED FEB 15 2022

Iredell County Health Department – Environmental Health Division

PAGE 1: *APPLICATION FORM* AP-325605 $500.00 SL.

Application For:
(X) 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: Ridgewater Construction Address: PO Box 4211 Mooresville, NC Zip: 28117
Applicant Email: Michael@Ridgewatercustomhomes.com Phone: _____ Alt. Phone: 704 657 4876
Owner Name: Rachael McClure Address: PO BOX 4211 Mooresville, NC Zip: 28117
Owner Email: Same as above Phone: 704 657 4876 Alt. Phone: _____

Property Information:

Street Address: 184 & Beris Ln Statesville, NC
Subdivision Name: Layd Acres Section/Phase: 2 Lot Number: 2
Driving Directions: Head North on I77, take exit 45 Barium Springs, turn right on Amity Hill Rd turn left on Shiloh Rd turn right on Clements Rd then turn right on Beris Ln

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

(X) 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: 1 Number of Persons: 6
(X) 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 (X) Other: See attached

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: Rachael McClure 2/8/2022
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

☒ **1. * APPLICANT AND OWNER ARE THE SAME. *** (*Sign here*) Rachael McClure

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, Rachael McClure / Ridgewater Construction LLC, am the legal owner(s) of the property located at 184 Bevis Ln. Statesville, NC, identified as PIN (Parcel Identification Number) 4702-03-7028, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Tarah Wallace &/or Rachael McClure c/o Ridgewater Construction 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.

Rachael McClure — Signature of Owner(s)

2/8/2022 — Date

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

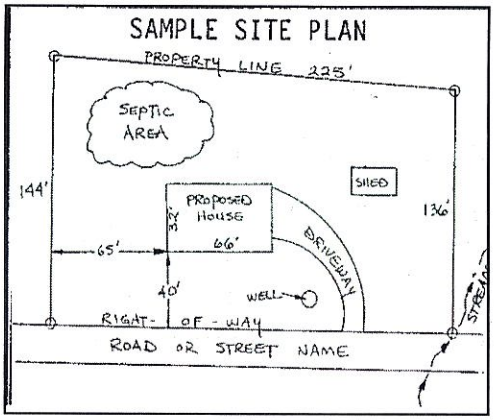
Statesville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

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

See attached

Signature: Rachael Miles — 2/8/2006

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

I, JOEL H. PATTERSON III, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; DEED DESCRIPTION AND/OR MAP BOOK SEE, PAGE NOTE #2; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK ___ PAGE ___; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,0004; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600). WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS ____ DAY OF _____, 2022.

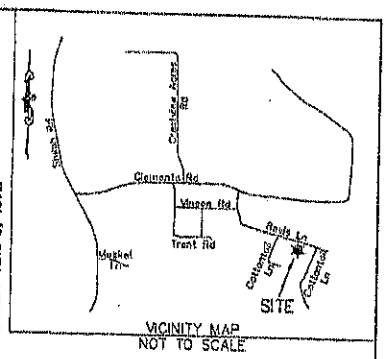
PRELIMINARY

JOEL H. PATTERSON III, PLS
LICENSE NUMBER: L-3717

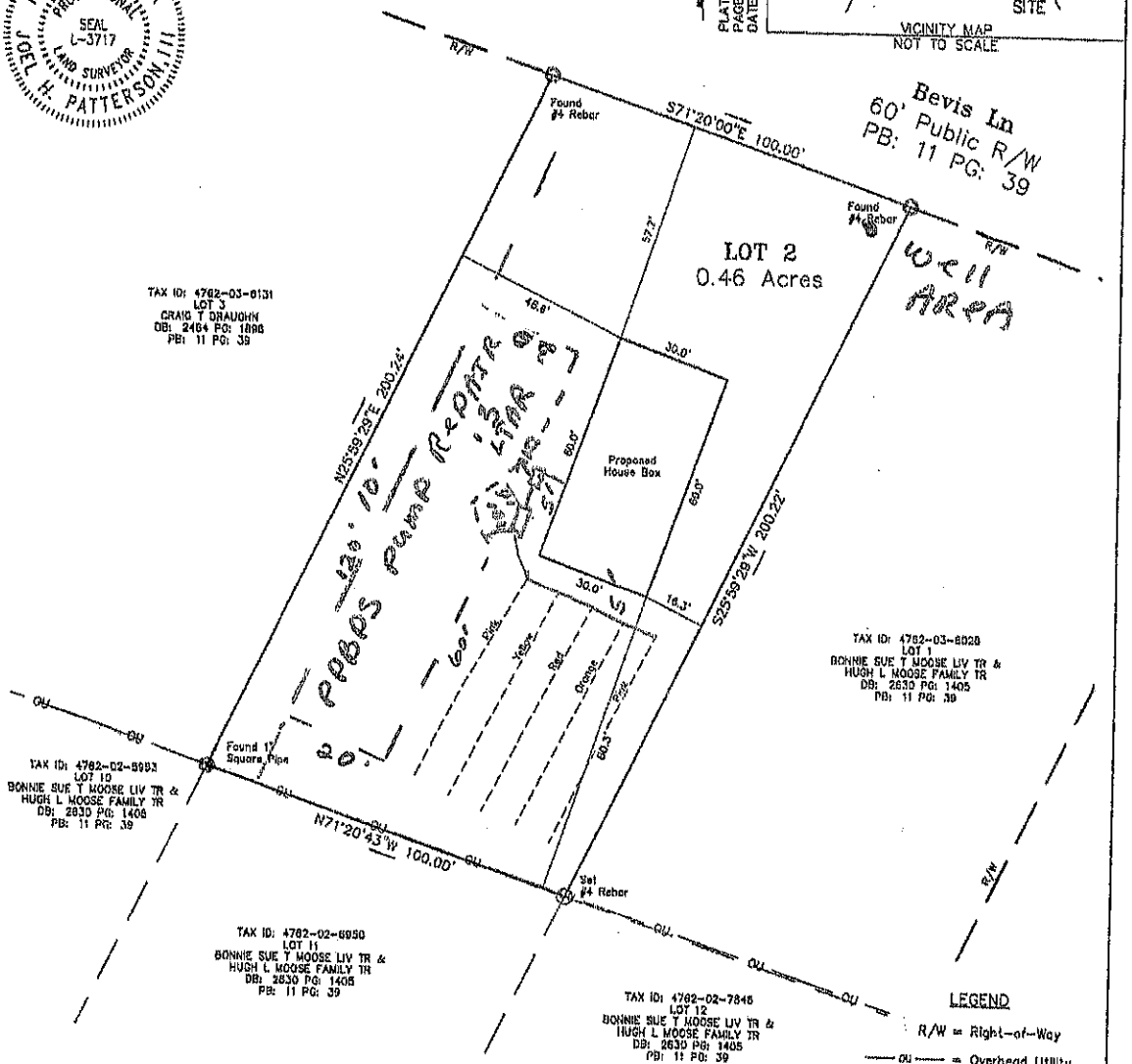
PRELIMINARY PLAN NOT FOR RECORDATION CONVEYANCES AND/OR SALES

NORTH CAROLINA PROFESSIONAL SEAL L-3717 LAND SURVEYOR JOEL H. PATTERSON III

PLAT BOOK: 11
PAGE: 39
DATED: June 6, 1972



VICINITY MAP
NOT TO SCALE



LEGEND
R/W = Right-of-Way
—OU— = Overhead Utility
Red (Color) = Septic Lines
O = Iron Found
O = Iron Set

GRAPHIC SCALE
30 0 15 30
(IN FEET)
1 inch = 30 feet

SURVEYOR NOTES

1. ALL DIMENSIONS SHOWN ARE IN US SURVEY FEET AND DECIMALS THEREOF AND ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE INDICATED. AREA BY COORDINATE METHOD.
2. THIS SURVEY IS BASED ON DEED BOOK 2630 PAGE 1405 AND PLAT BOOK 11 PAGE 39 AS RECORDED AT THE IREDELL COUNTY REGISTER OF DEEDS.
3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE EXAMINATION BY AN ATTORNEY. THE PROPERTY MAY BE SUBJECT TO RECORDED OR UNRECORDED RIGHTS-OF-WAY, EASEMENTS, RESTRICTIVE COVENANTS OR CONDITIONS NOT OBSERVED OR SHOWN HEREON.
4. SUBJECT PARCEL LIES WITHIN A SUBDIVISION PREVIOUSLY TIED TO NC GRID.
5. BASIS OF BEARINGS: PLAT BOOK: 11, PAGE: 39 ~ DATED: JUNE 13, 1972.
6. ALL CORNERS "FOUND" OR "SET" ARE FLUSH WITH THE GROUND, UNLESS OTHERWISE NOTED. POINTS NOT LABELED "FOUND" OR "SET" ARE COMPUTED POINTS.
7. THE LOCATION OF UTILITIES AS SHOWN HEREON, WHETHER PUBLIC OR PRIVATE, ARE BASED ON THE LOCATION OF VISIBLE ABOVE GROUND APPURTENANCES ONLY. OTHER UTILITIES WHICH WERE NOT OBSERVED AND NOT SHOWN HEREON MAY EXIST. IT IS THE OWNER/TENANTS RESPONSIBILITY TO VERIFY THE LOCATION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. PATTERSON LAND SURVEYING, P.A. CANNOT ASSUME RESPONSIBILITY FOR MISIDENTIFICATION OR EMISSION OF UNDERGROUND UTILITIES.
8. THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.
9. THIS PROPERTY LIES IN FLOOD ZONE "X" AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL 3710478200J, WITH AN EFFECTIVE DATE OF MARCH 18, 2008.

PLOT PLAN
LOT 2 – LOYD ACRES – SECT. TWO
PLAT BOOK: 11 PAGE: 39

CHAMBERSBURG TOWNSHIP, IREDELL COUNTY, NC

Prepared For:
RIDGEWATER CUSTOM HOMES
P.O. BOX 4211
MOORESVILLE NC, 28115

PATTERSON LAND SURVEYING, P.A.
NC LICENSE #: C-3390
P.O. BOX 5010, MOORESVILLE, NC 28117
PHONE: 704-663-0110 EMAIL: pattersonlandsurveying@gmail.com

Drawn By: SAG	Checked By: JHP	Scale 1" = 30'	Project No. 21077
Tax Parcel: 4762-03-7028			
Date: January 25, 2022			Sheet No. 1 of 1
File: 21077-Lot 2 Loyd Acres.dwg			

Lyndhurst Plan

184 Bevis Lane

SYMBOL LEGEND

110V 60HZ OUTLET
220 V OUTLET
RECESSED LIGHT FIXTURE
SURFACE OR WALL MOUNT LIGHT FIXTURE
2 LAMP SURFACE MOUNT FLUORESCENT W/ACRYLIC WRAP AROUND LENSE
DATA LINE (COMPUTER & PH)
TELEVISION
SMOKE DETECTOR
POLE & SHELF
CFM RATED FAN VENTED TO EXTERIOR
CEILING FAN W/LIGHTS
SWITCH

STRUCTURE
BEAM/HEADER
POST/POINT LOAD
LOAD BEARING WALL

NOTE: BLACKENED AREA = POSTS OR STUDS
■ - 6X6 POSTS OR (3)2X6
■ - 4X6 POSTS OR (2)2X4
■ - 4X4 POSTS OR (2)2X4
TO BE DETERMINED BY FRAMER UNLESS SPECIFIED ON THE PLAN

6X8 FOR MIN. 7'-9" CEILINGS
4X10 FOR MIN. 8'-0" CEILINGS
4X12 FOR MIN. 9'-0" CEILINGS

MIN LOADS
FLOOR:
LIVE: 40lbs PSF
DEAD 10lbs PSF
ROOF:
LIVE 25lbs PSF
DEAD 17lbs PSF
DECKS:
LIVE 40lbs PSF
DEAD 10lbs PSF

ALL BEAM, RAFTERS, JOIST, HERO POST, AND STUDS ARE OF #2 UNLESS NOTED ON PLAN. ANY WOOD IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED

GENERAL CODE:
HALLWAYS MIN. WIDTH SHALL BE NOT LESS THAN 36 INCHES

EXIT DOOR NOT LESS THAN ONE EXIT DOOR PER DWELLING UNIT, SIDE HINGED AND NOT LESS THAN 36 INCHES IN WIDTH AND 6 FEET 8 INCHES IN HEIGHT PER FLOOR OR LANDING ON EACH SIDE OF EXTERIOR DOOR SHALL NOT BE MORE THAN 1½ INCHES LOWER THAN THE TOP OF THE THRESHOLD PER AND OPT. SLOPE OF LANDING OF 2% MAX. (205 UNITS VERT. IN 12 UNITS HORIZ.)

SMOKE DETECTORS SHALL BE INSTALLED IN EACH SLEEPING ROOM AND CENTRALLY LOCATED IN ADJACENT CORRIDOR. SMOKE DETECTORS SHALL BE INSTALLED ON EACH FLOOR, LEVEL, AND IN BASEMENTS. DETECTORS SHALL SOUND ALARM AUDIBLE IN ALL SLEEPING AREAS AND SHALL BE EQUIPPED WITH BATTERY BACK-UP AND INTERCONNECTED AND HARD WIRED.

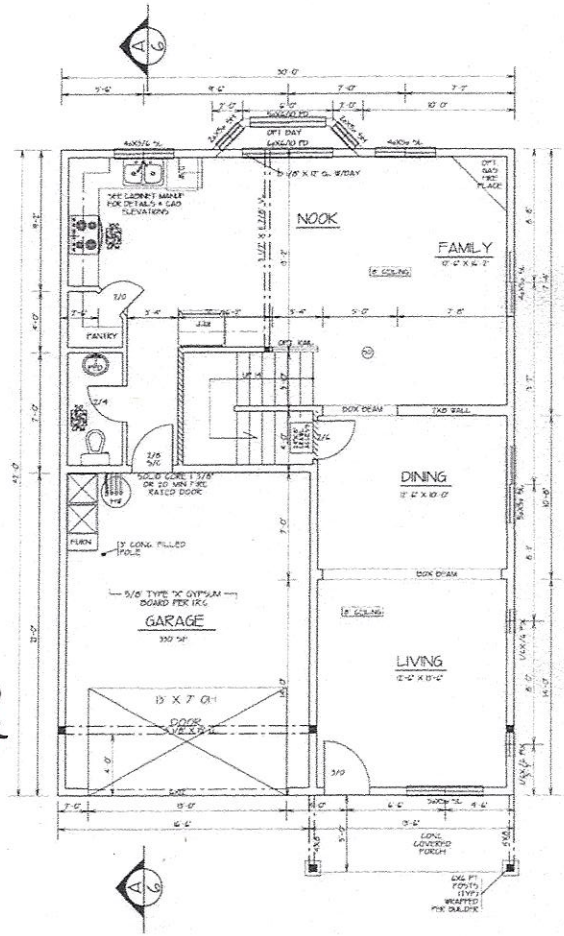
EMERGENCY ESCAPE AND RESCUE OPENINGS: BASEMENTS AND EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE EGRESS OPENING. SILL HEIGHT NOT MORE THAN 44" FROM ABOVE TILE FLOOR.
MIN. OPENING AREA OF 5.7 SQFT. NET.
MIN. OPENING HEIGHT OF 24" NET.
MIN. OPENING WIDTH OF 22" NET.
WINDOW WELL - HORZ. AREA

GOVERNING DESIGN CODE:
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL RESIDENTIAL CODE
GENERAL:
SPECIFICATIONS AND CODES REFERENCED IN THESE NOTES ARE THE VERSIONS MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY. FIELD VERIFY DIMENSIONS AND ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE PRIOR TO FABRICATION OF MATERIALS FOR FEATURE CONSTRUCTION. FIELD VERIFY DIMENSIONS ON LOT WITH SETBACKS AND ELEVATIONS RELATIVE TO HEIGHTS LIMITS PER SURVEY OR PER LOCAL JURISDICTIONS.
APPLY, PLACE, ERECT OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ADEQUATELY BRACE STRUCTURE AND ALL STRUCTURAL COMPONENTS AGAINST WIND, LATERAL EARTH AND SEISMIC FORCES UNTIL THE PERMANENT LATERAL FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED. PROVIDE BLOCKING BETWEEN STUDS OR OTHER MEANS OF BRACING AT WOOD BEARING WALLS TO PREVENT STUD BUCKLING PRIOR TO INSTALLATION OF GYPSUM WALLBOARD.

Acknowledgement of Plans Submittal ONLY!

Date 2-15-22

BOB Date 2-25-22



FLOOR PLAN
SCALE 1/4"=1'

REFER TO ENGINEERING SHEETS FOR NEED & LATERAL ENGINEERING IS REQUIRED ACCORDING TO LOCAL BUILDING CODES AND/OR ZONING REGULATIONS.

AREA	
1ST FLOOR	1313 SF
2ND FLOOR	720 SF
TOTAL	2033 SF

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Design NW Custom Home Plans

2033 SF

DRG	01-05-15 LD
REV	06-30-15 LD
REV	
REV	

2033-24

2

SYMBOL LEGEND

- 110V 60HZ OUTLET
- 220 V OUTLET
- CEILING FAN W/LIGHTS
- RECESSED LIGHT FIXTURE
- SWITCH
- SURFACE OR WALL MOUNT LIGHT FIXTURE
- 2 LAMP SURFACE MOUNT FLUORESCENT W/ACRYLIC WRAP AROUND LENSE
- DATA LINE (COMPUTER & PH)
- TELEVISION
- SMOKE DETECTOR
- POLE & SHELF
- CFM RATED FAN VENTED TO EXTERIOR

STRUCTURE

- BEAM/ DETAIL/ORDER
- POINT LOAD
- LOAD BEARING WALL

FRAMING LUMBER
LUMBER SPECIES: DOUGLAS FIR-LARCH GRADE LUMBER
LUMBER GRADES:
EXTERIOR WALL STUDS ..NO 2 OR BETTER
INTERIOR NON-BEARING WALL STUDS ..STANDARD OR BETTER
INTERIOR BEARING WALL STUDS .....NO 2 OR BETTER
JOISTS .....NO 2 OR BETTER
BEAMS .....NO 2 OR BETTER UNLESS NOTED ON PLAN
POSTS .....NO 2 OR BETTER UNLESS NOTED ON PLAN
BLOCKING .....STANDARD OR BETTER
SOLID BLOCKING (USE SAME DEPTH AS MEMBER)

ANY WOOD IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED (PER IRC R317.1)

GLUE-LAMINATED MEMBERS:
MEMBER SPECIES: USE SP/SYP/HEM
MEMBER GRADE: (SIMPLE, MULTIPLE SPAN OR CANTILEVERED SPANS) USE 24F-V4
MATERIAL STANDARDS: ARCHITECTURAL GRADE APPEARANCE DO NOT USE 24F-1.8E UNLESS NOTED & APPROVED BY A QUALIFIED SUPPLIER OF STRUCTURAL ENGINEER

GLULAM COLUMNS: USE COMBINATION #3 DF

PLYWOOD SHEATING
ROOF SHEATHING: 7/16" MIN INDEX 32/16
FLOOR SHEATHING: 3/4" MIN INDEX 48/24 T&G
WALLS SHEATHING: 7/16" MIN INDEX 32/16

ENGINEERED WOOD PRODUCTS MUST CONFORM WITH ALL APPLICABLE PROVISIONS OF THE IBC

WOOD PRODUCT MANUFACTURER:
TJI® JOIST - TJ-9 SERIES JOIST OR
BOISE ENGINEERING (BCI SERIES JOISTS)

ASSEMBLIES AND HANGERS, AS REQUIRED TO PROVIDE A COMPLETE FLOOR OR ROOF STRUCTURAL SYSTEM PER I-JOIST MANUF.

RIM BOARD:
1 1/4" WOOD (E GRADE (1,450#) NOTED ON PLANS) OR APPROVED BY JOIST SUPPLIER OR STRUCTURAL ENGINEER

BEARING REQUIREMENTS FOR MECHANICAL UNITS:
JOIST SUPPLIER AND CONTRACTOR TO DOUBLE ALL JOISTS MEMBERS UNDER MECH UNITS UNLESS NOTED OTHERWISE DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS EXCEPT AS APPROVED BY THE STRUCTURAL ENGINEER

SIDING:
SIDING TO BE DETERMINED BY OWNER/BUILDER

GARAGE / DWELLING SEPARATION:
ON THE GARAGE SIDE OF WALLS AND CEILING WITH A MIN. 1/2" GWB AND 5/8" TYPE 'X' GWB AT CEILING WITH HABITABLE ROOMS ABOVE

INSULATION R-VALUES:
2X4 WALLS R-13 MIN, 2X6 WALLS R-21 MIN.
ROOF CAVITIES: R-49 MIN.
VAULTED ROOF CAVITIES: R-38 MIN.
UNDER SLAB R-10 FOR MIN. 24" HORIZONTAL LENGTH MIN.
INSULATION BAFFLES AT VENTS (PER IRC R806.3)
FLOOR CAVITIES R-30 MIN
WITH 1" MIN. AIR SPACE FOR VENTING (PER IRC R303.3)

CRAWL SPACE:
18" MIN. CLEARANCE FROM GRADE TO BOTTOM OF FLOOR JOIST AND MIN 12" CLEARANCE TO BOTTOM OF GIRDERS OR BEAMS IN THE CRAWL SPACE

ROOF:
COMPOSITION ROOF SHINGLES MUST BE A MINIMUM OF 30-YEAR OR 15# FELT ON 1/2" MIN 7/16" SHEATHING ON MANUF. TRUSS OR RAFTERS 24" O/C
DIGITON RIDGE, 6x8 & 10x8 USE SIMPSON 2.5 "H" CLIP ON EACH TRUSS OR RAFTER

ATTIC VENTILATION:
ATTIC VENTILATION MUST BE 1/150th OF THE ATTIC AREA OR 1/300th OF ATTIC AREA IF AT LEAST 40 PERCENT BUT NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTILATION IS 3 FEET ABOVE THE EAVE OR CORNICE VENTS OR PROVIDE A MOISTURE BARRIER ON THE WARM SIDE OF THE CEILING (PER IRC R806)

OVERHANG:
OVERHANGS ARE TO BE DETERMINED BY OWNER/BUILDER

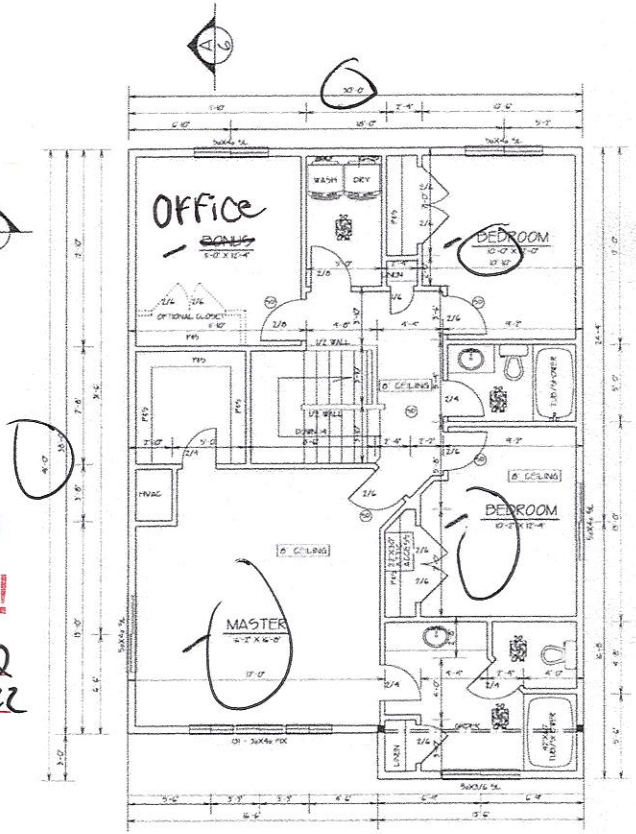
GUTTERS:
GUTTERS ARE TO BE DETERMINED BY OWNER/BUILDER

Acknowledgement of Plans Submittal ONLY!

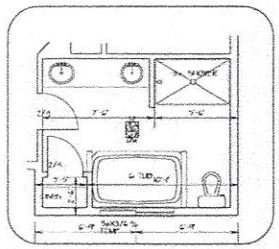
Date 2-15-22

Date 2-25-22

3 Bedroom/Bonus RM



2ND FLOOR PLAN
SCALE 1/4"=1'-0"



MASTER BATHROOM OPTION

REFER TO ENGINEERING SHEETS FOR SPECS IF LATERDEAL ENGINEERING IS REQUIRED ACCORDING TO LOCAL BUILDING CODES AND/OR ZONING REGULATIONS

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2033 SF

ORIG: 01-05-05 LJV
REV: 06-5-07 LJV
REV:

2033-24

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