IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 236416

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

PIN # 4627-82-3952

APPLICANT/OWNER: George Garmaghan APPLICANT ADDRESS: 510 Beaten Path Rd. Mooresville, NC 28117

SITE ADDRESS: 510 Beaten Path Rd. Mooresville, NC 28117 PHONE: 704-400-6420 ALT. PHONE

SITE DIRECTIONS: BSR towards Lake Norman → R on Blume Rd → L on Beaten Path → House on Right SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: CL+T SECTION: 9 LOT# 60 LOT AREA: 0.74 acres DESIGN FLOW: 480 GPD L.T.A.R.: 0.30

Septic Tank	1000	(gal)	STB 760	Date	7/20	☒ New System	☐ Repair	☐ Expansion	System Type: I II III (IV) V VI	☒ Residence	No. Bedrooms 4
Pump Tank	1000	(gal)	PT 363	Date	7/26	System Description: LP-PPBPS (50% Reduction)				☐ Business	No. Persons 8
Pump Make			Model			Repair System Description: 50% Reduction (PPBPS) + Existing				☐ Other	No. Employees
# Nitrification Fields	1		# Lines	7	Linear Ft	267	Maintenance Agreement Required:	☒ YES	☐ NO	☒ Slab	☒ Crawl Space
Trench Width	24" min		Trench Bottom Depth(Low side)	30"		Gravel Depth —		☐ GRAVITY	☒ PRESSURE	☐ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: ★ Add MUST be constructed with a slab foundation to ensure tanks + septic area meet setback standards. ★ Direct house downspout drains away from septic areas.

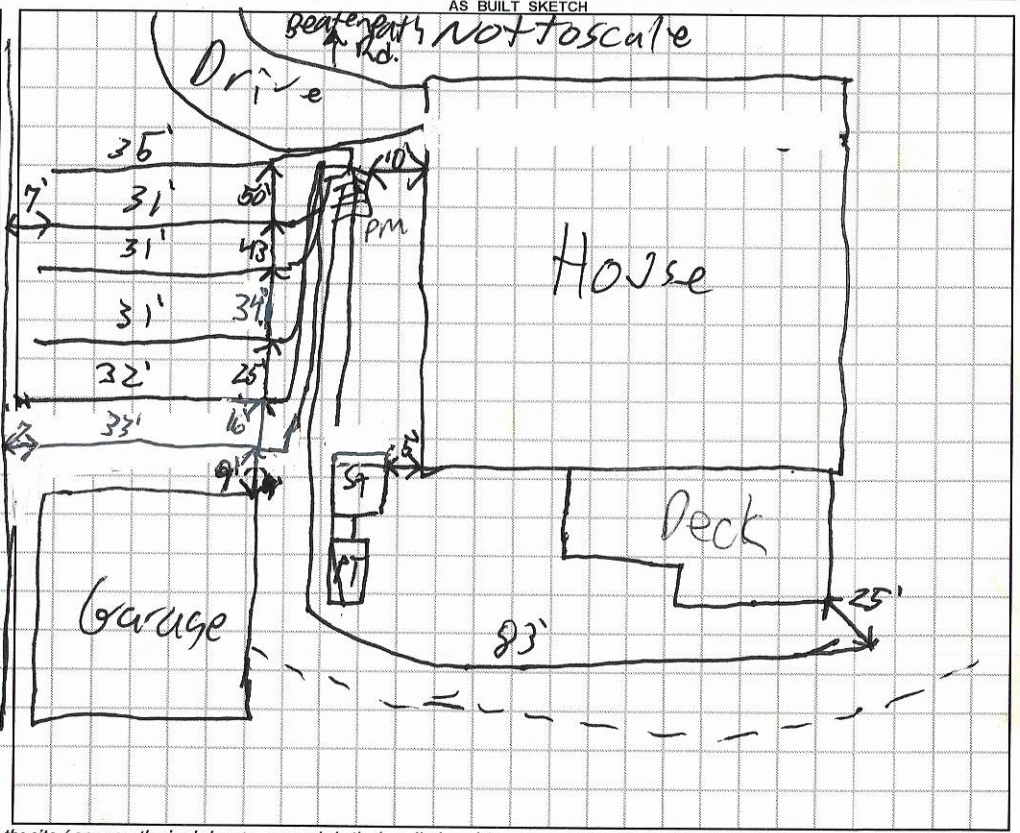
★ No vehicular traffic to access garage adjacent new septic area ★ [24.2' x 28.2' garage]

INITIAL SITE SKETCH

See attached plans from Rollans Soil + Environmental Services, PA.

Dated: 5/11/2018 Ashley Rollans LSS# 1231

AS BUILT SKETCH



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: [signature] Date: 5/6/19 Installed by: Richard Abernathy Company

IMPROVEMENT PERMIT by: Tom Shuck Date: 6/26/18 OPERATION PERMIT by: James Boggs Date: 5-5-2020

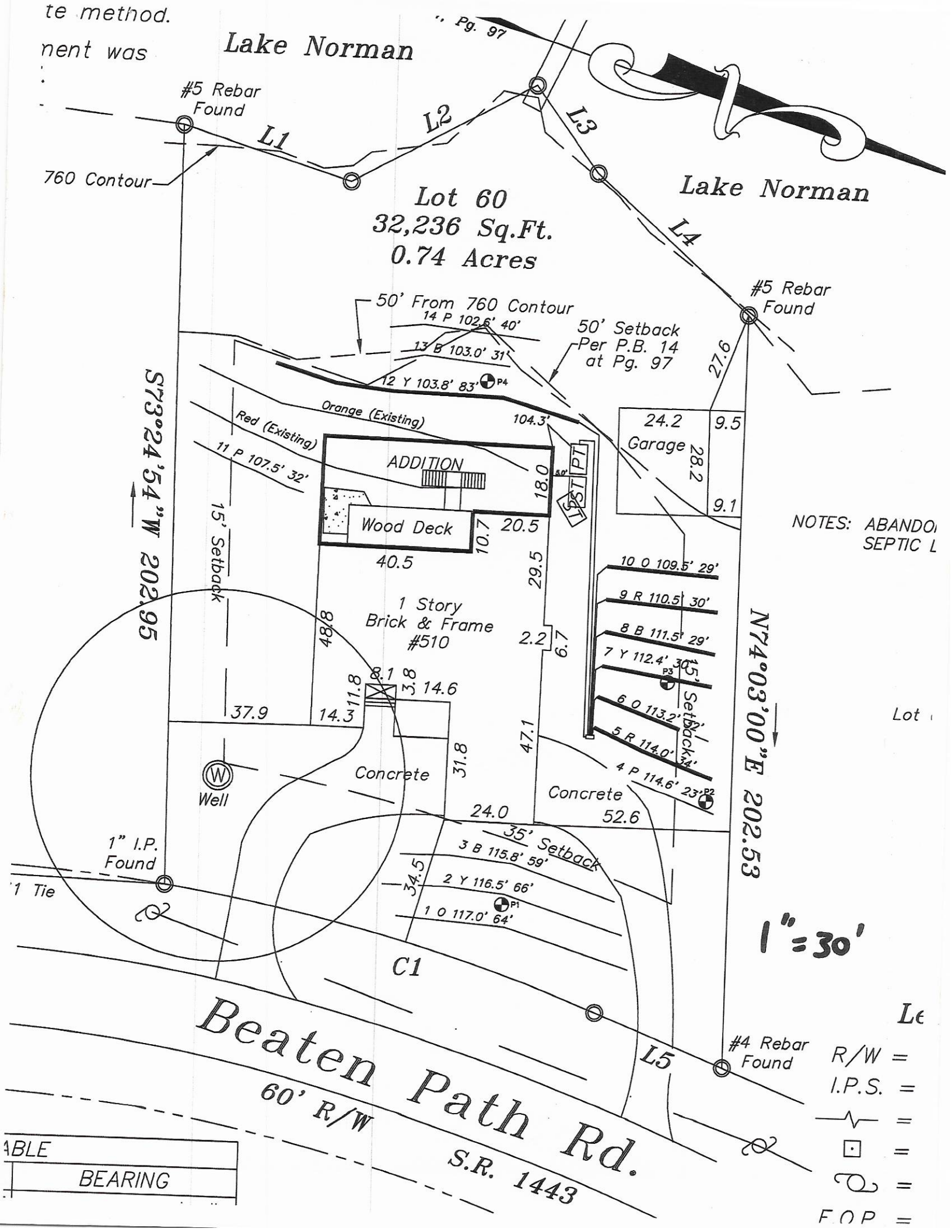
AUTHORIZATION TO CONSTRUCT by: Tom Shuck Date: 5/8/2019 Existing System Inspected by: Date:

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

	Date	Initials
Drain Lines Checked	9/16/19	PJB
Tanks Checked	9/16/19	PJB
Pressure Manifold or Valve Box Checked	9/16/19	PJB
Pressure Head Set	5-5	
Electrical Checked	5-5	
Floats Set	5-5	
Alarm Checked	5-5	
Maintenance Contract (Y) / N	4-15-20	MH

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NOTES: ABANDO
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F.O.P. =

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BEARING

ROLLANS *Soil & Environmental Services, PA.*
P.O. Box 832, Mooresville, NC 28115 Phone: (704) 746-5046 Fax: (704) 278-0989

Ashley Rollans, NC Licensed Soil Scientist
Mobile: (704) 746-5046
Email: rollans.ashley@yahoo.com

Attached is a proposed design for a PPBPS Septic System with low pressure distribution for a 4 bedroom single family residence on 510 Beaten Path Lane, Lot # 60 Crescent Land & Timber Corp., Iredell County, North Carolina.

Contents:

	Page
Information for the Installer	1
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Authorization Form	15
Operations Permit	15
Green Sheet	16
Expedited Review Sheet	17

5/11/18

May 11, 2018
Project #: 01-3486
Design By: Rollans Soil & Environmental Services, PA

APPROVED JUN 26 2018

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 w/Low Pressure Distribution.
- Repair is specified as an PPBPS with TS-II Pretreatment installation.
- 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.
- **Proposed Addition must be installed a minimum of 5' from any septic.**
- **Existing system must be abandoned per Iredell County Health Dept.**

LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant: George Garraghan

Current Address: 510 Beaten Path
Mooresville, NC 28117

Phone: 704.400.6420

County: Iredell

Location: CRESCENT LAND & TIMBER CORP. LOT # 60
510 BEATEN PATH, MOORESVILLE, NC 28117

Source of Wastewater Flow: 4 Bedroom Single Family Residence

Estimated Gallons Per Day Flow: 480

System Flow: 25.42

Design Specifications

Drainfield Size: 267

Loading Rate (gpd/ft.^{2}): 0.3

Depth of Gravel in Trench: NA (PPBPS)

Gravel Size: NA (PPBPS)

Max. Trench Depth: 30 in. Repair 30 in.

Trench Width: 24 in.

Septic Tank Size: 1000

Pump Tank Size: 1000

Estimated Supply Line Length: 85

Supply Line Diameter: 2 in. SCH 40 PVC

Supply Line Volume: 14.79

Dosing Volume: 149.54

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: 1.51

Elevation Head: 15.00

Total Dynamic Head: 21.29

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 Rollans Soil & Environmental Services

APPROVED JUN 2 6 2018

CALCULATIONS

Location	CRESCENT LAND & TIMBER CORP. LOT # 60 510 BEATEN PATH, MOORESVILLE, NC 28117
Project Number	01-3486
Lot No:	60
No. of Bedrooms	4
Design Flow	480 $^{gal}/_{day}$
LTAR	0.300 $^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES
Supply Line Length	85 ft.
Supply Line Volume	14.79 gal.
Required Feet of Line	266.6667 ft.
Amount of Line from Layout	267 ft.
Gallons per Minute	25.42 $^{gal}/_{min}$
Required Septic Tank Capacity	1000 gal.
Pump Tank Capacity	1000 gal.
Panel Volume	3.6 gal.
# of Panels	62
Dosing Volume	149.54 gal.
	Note: Dosing Volume based on 67% of # of panels times 3.6 gal/panel
Tank Draw Down	7.1 *Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.88 minutes
Elevation Head	15 ft.
Pressure Head	2 ft.
Friction Factor	1.78 ft./100 ft. *(From the interpolater.)*
Friction Head	1.51 ft.
Total Dynamic Head (+15%)	21.29 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

LP PPBPS TAPSHEET -CRESCENT LAND & TIMBER CORP. LOT#60

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
5	RED	114.00	34	0.156	0.41	102	8
6	ORANGE	113.20	32	0.156	0.41	96	7
7	YELLOW	112.40	30	0.156	0.41	90	7
8	BLUE	111.50	29	0.156	0.41	87	7
9	RED	110.50	30	0.156	0.41	90	7
10	ORANGE	109.50	29	0.156	0.41	87	7
12	YELLOW	103.80	83	0.156	0.41	249	19
	total	feet =	267	gal/min =	25.42		62
			Des. Flow	480			
			Pump Run=	5.88			
			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

APPROVED JUN 26 2018

CRESCENT LAND & TIMBER CORP. LOT # 60
LP PPBPS

DESIGN FLOW (gpd):	480
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	534
TOTAL LATERAL LENGTH:	267
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	266.6666667
SUPPLY LINE LENGTH:	85
TOTAL DYNAMIC HEAD:	21.29
MANIFOLD SIZE:	N/A
DOSING VOLUME:	149.54
PUMP TANK DRAW DOWN*:	7.1
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.*

APPROVED JUN 26 2018

CRESCENT LAND & TIMBER CORP. LOT # 60

Project #: 01-3486

LAYOUT FOR 4 BEDROOM HOME

May 11, 2018

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
HOUSE CNR							
P. TANK					104.30		
1	ORANGE				104.30		
2	YELLOW				117.00	64	64
3	BLUE				116.50	66	66
4	PINK				115.80	59	59
5	***RED***				114.60	23	23
6	***ORANGE***				***114.00***	***34***	***34***
7	***YELLOW***				***113.20***	***32***	***32***
8	***BLUE***				***112.40***	***30***	***30***
9	***RED***				***111.50***	***29***	***29***
10	***ORANGE***				***110.50***	***30***	***30***
11	PINK				***109.50***	***29***	***29***
12	***YELLOW***				107.50	32	32
13	BLUE				***103.80***	***83***	***83***
14	PINK				103.00	31	31
					102.60	40	40
					Total	**582**	**582**

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***267***	***0.300***	***MOD.***	***0.300***	***PPBPS***	***LOW PRESSURE***
Repair	***315***	0.300	MOD.	0.300	PPBPS W_TS-II	LOW PRESSURE

Notes:

** All septic lines, soil borings and house envelope located via survey

**All measures in feet

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

****Addition must be installed at least 5' from the System Area.**

APPROVED JUN 26 2018

Sheet 1 of 1
PROPERTY ID #: 4627823
COUNTY: Iredell

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

OWNER: George Garraghan
ADDRESS: 510 Beaten Path
PROPOSED FACILITY: Resident PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: 510 Beaten Path
WATER SUPPLY: ☐ Private ☐ Public ☑ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut

APPLICATION DATE: May 2018
DATE EVALUATED: 12/4/17
PROPERTY SIZE: .75
PROPERTY RECORDED: Y/S

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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L/S	0-5	RBCL wms6K	Fr SS SP	N/A	48"	N/A	N/A	.3
		5-17	BRC mm S6K A6K	Fr SS SP					
		17-30	BRC wm S6K 46K	Fi SS SP F4 F6iK					
		30-48	RBCL w FS6K	Fi SS SP FSap F6iK					
2	L/S	0-8	RBCL wms6K	Fi SS SP comp	N/A	48"	N/A	N/A	.3
		8-33	BRC wms6K	Fr SS SP					
		33-48	BRC wms6K	Fr SS SP Few 6iaK minerals					
3	L/S	0-14	RBCL wms6K	Fr SS SP	N/A	48"	N/A	N/A	.3
		14-48	RC w Fi S6K	Fr S SP					
4	L/S	0-26	DBCL wms6K	Fr SS SP	N/A	48"	N/A	N/A	.3
		26-48	RC wm S6K	Fr S SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	265	265
System Type(s)	PPBPS	PPEPS w/ISII
Site LTAR	PS 0.3	PS 0.3

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

APPROVED JUN 26 2018

COMMENTS:

Please CALL prior to inspection

RECEIVED JUN 1 2 2018

Expansion/Relocation - Paid $350.00

Name: Ashley Rollans
704-746-5046

ITY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

#236416

Number: **Application For:**

(✓) Septic Improvement Permit ( ) New Well Permit ( ) Authorization to Construct ( ) Well Repair Permit ( ) Existing System Inspection ( ) Well Abandonment ( ) 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: George Garraghan **Address:** 510 Beaten Path Rd Mooresville **Zip:** 28117

Applicant Email: dtesta@jstata.com **Phone:** 704 400 6420 **Alt. Phone:**

Owner Name: George Garraghan **Address:** 510 Beaten Path Rd Mooresville **Zip:** 28117

Owner Email: same **Phone:** same **Alt. Phone:**

****

Property Information:

Street Address: 510 Beaton Path Rd Mooresville NC 28117

Subdivision Name: Crescent Land + Timber Corp **Section/Phase:** 59 **Lot Number:** 60

Driving Directions:

****

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

( ) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
(X) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem:

Maximum Number of Bedrooms: 4
Maximum Number of Occupants:
( ) Swimming Pool
( ) Other Addition/Structure:

Non-Residential Site Development: Type of Business:
Square Footage of Building: **Max. Number of Employees:** **Max. Number of Seats/Beds/Other:**

CHECK FOUNDATION TYPE

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

****

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:** 1979

( ) No Preference ( ) Alternative (✓) Conventional ( ) Innovative ( ) 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: Steven A Kellam
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

5/14/18
DATE

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, George Garraghan, am the legal owner(s) of the property located at 510 Beuten Path, identified as PIN (Parcel Identification Number) 4627823952, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Doug Testa Rollans Soil Environmental Svcs, 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 _____

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

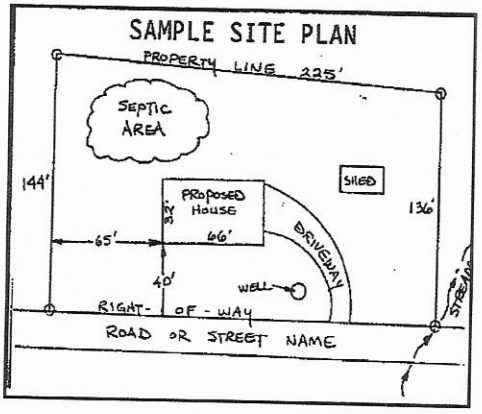
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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

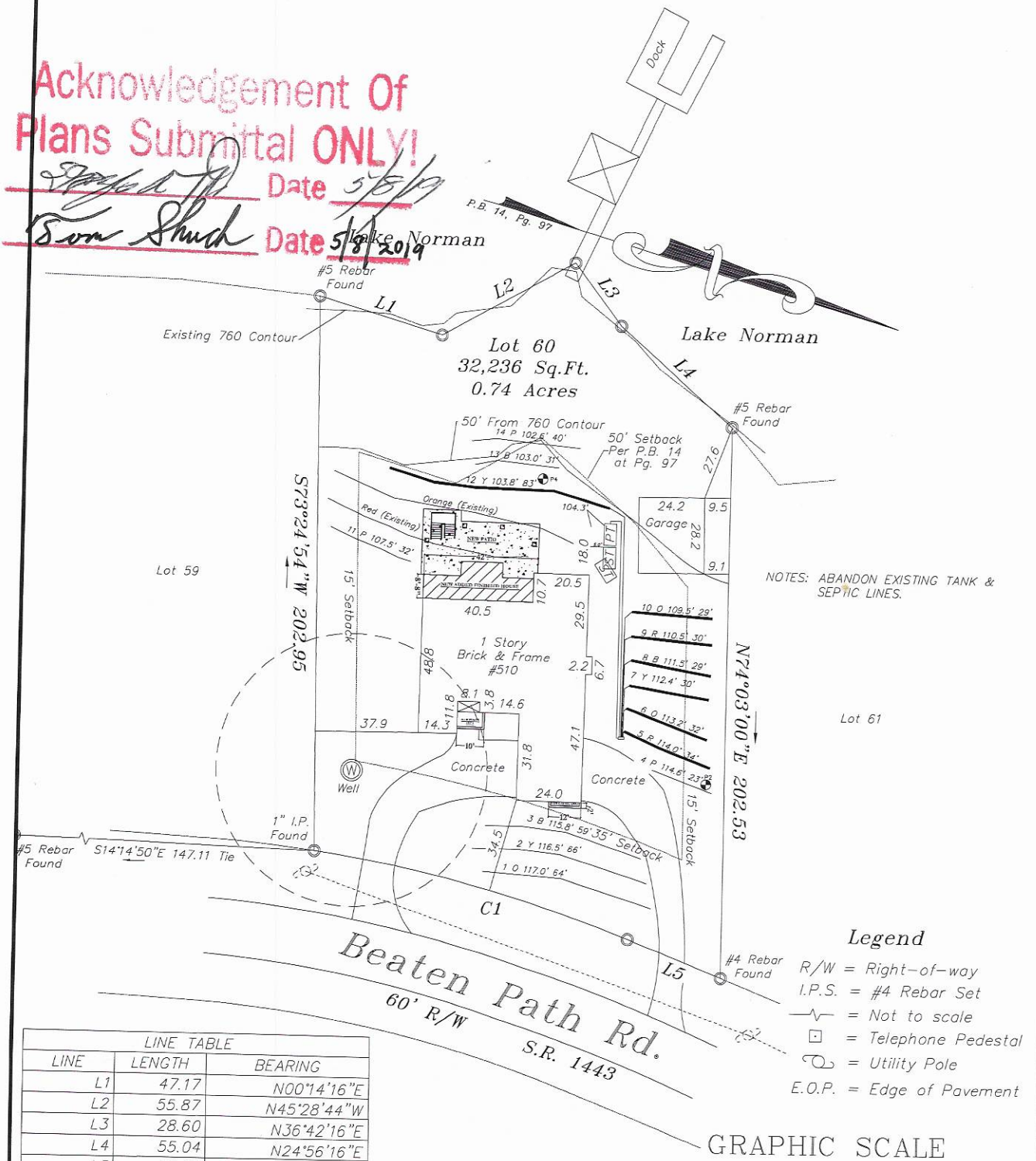
Signature: _____

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

5/04/18

DATE

Acknowledgement Of
Plans Submittal ONLY!
Date 5/8/19
Date 5/8/2019



LINE TABLE		
LINE	LENGTH	BEARING
L1	47.17	N00°14'16"E
L2	55.87	N45°28'44"W
L3	28.60	N36°42'16"E
L4	55.04	N24°56'16"E
L5	37.22	S05°35'51"W

CURVE TABLE				
CURVE	LENGTH	RADIUS	BEARING	CHORD
C1	120.19	498.59	S01°18'29"E	119.90

Legend

R/W = Right-of-way
I.P.S. = #4 Rebar Set
= Not to scale
= Telephone Pedestal
= Utility Pole
E.O.P. = Edge of Pavement

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

Site Plan
C-2

McFarland Design Group Inc.
342 Highway 16 North, Denver, NC 28037
980-722-1726
www.mcfarlanddesign.com

"The Grissom Residence"
510 Beaten Path, Mooresville, Iredell County, NC 28117

McFarland Design Group or Robert S. McFarland assumes no liability for any home constructed from this plan. Release of these plans contemplates further cooperation among the owner and his contractor. Changes made from these plans without consent of the McFarland Design Group are unauthorized and shall relieve the designer of responsibility for all consequences arriving out of such changes. Written dimensions on these drawings shall have precedence over scaled dimensions, contractor shall verify and be responsible for all dimensions and conditions on the job.
General Notes

I Lance D. Schamback, certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description and/or Map Book: 14, Page 97. That the boundaries not surveyed are clearly indicated as drawn from information as shown survey; that the ratio of precision as calculated is 1: 10,000+ that this plat was prepared in accordance with G.S. 89-C as amended. Witness my original signature, registration number and seal this 7 day of December, A.D. 2017.

Lance D. Schamback, PLS
LICENSE NUMBER: L-4295

Notes:

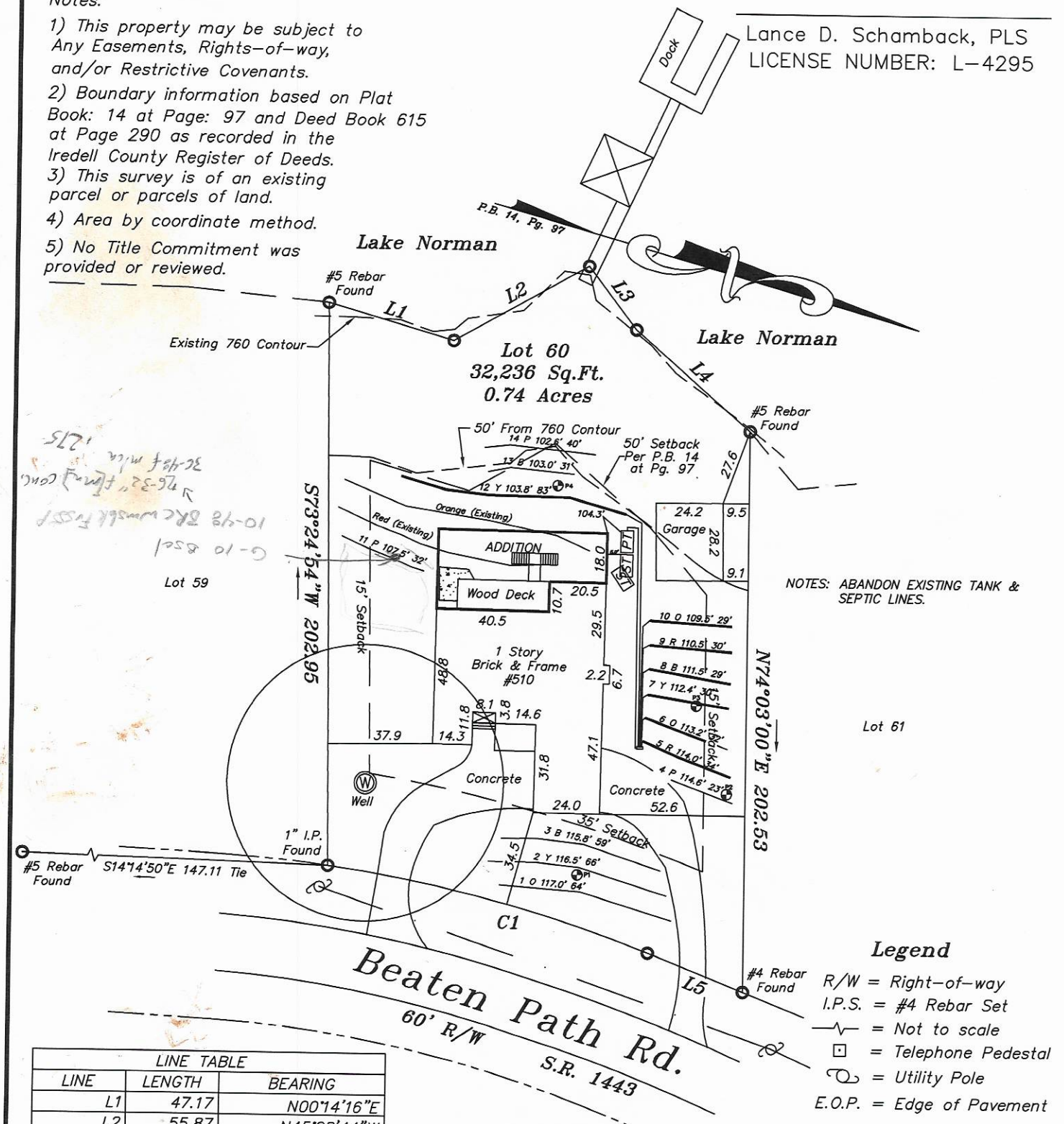
1) This property may be subject to Any Easements, Rights-of-way, and/or Restrictive Covenants.

2) Boundary information based on Plat Book: 14 at Page: 97 and Deed Book 615 at Page 290 as recorded in the Iredell County Register of Deeds.

3) This survey is of an existing parcel or parcels of land.

4) Area by coordinate method.

5) No Title Commitment was provided or reviewed.



Legend

R/W = Right-of-way
I.P.S. = #4 Rebar Set
= Not to scale
= Telephone Pedestal
= Utility Pole
E.O.P. = Edge of Pavement

LINE TABLE		
LINE	LENGTH	BEARING
L1	47.17	N00°14'16"E
L2	55.87	N45°28'44"W
L3	28.60	N36°42'16"E
L4	55.04	N24°56'16"E
L5	37.22	S05°35'51"W

CURVE TABLE				
CURVE	LENGTH	RADIUS	BEARING	CHORD
C1	120.19	498.59	S01°18'29"E	119.90

APPROVED JUN 26 2018

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

Wayne Gonyar

IREDELL COUNTY HEALTH DEPARTMENT

(SEPTIC TANK) IMPROVEMENTS PERMIT AND CERTIFICATE OF COMPLETION

(Ground Absorption Sewage Disposal System – G. S. Chapter 130-Article 13C)

OWNER OR CONTRACTOR O. S. McNeely DATE 8/17/79 PERMIT NO. 251

PHONE: Business _____ Home _____

LOCATION Road 1100, TR 1178 TL Dogwood Lane TL Beaten Path ½ mile on R S. R. No. _____

SUBDIVISION NAME Lake Norman LOT NO. 60 SECTION OR BLOCK NO. 9

House (✓) Mobile Home ( ) Business ( ) Other _____

No. Bedrooms 3 No. Bathrooms 2

Garbage Disposal Unit	Yes ( )	No (X)
Auto. Dishwasher	Yes (X)	No ( )
Auto. Wash. Machine	Yes (X)	No ( )
Site Suitable	Yes (✓)	No ( )

Lot Area 3/4 Acre +

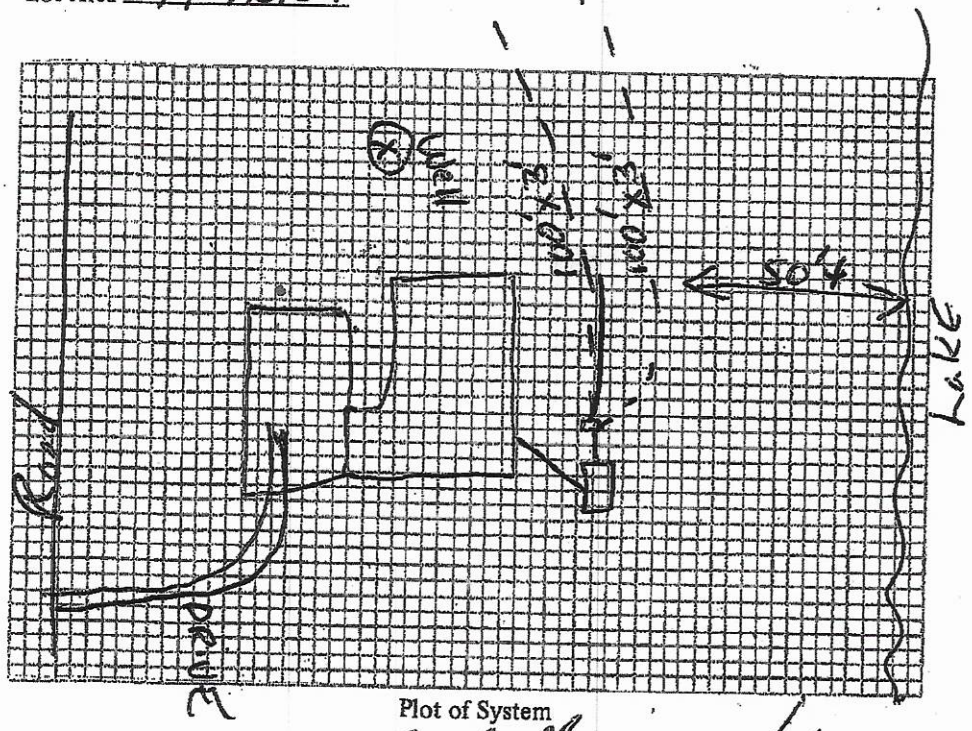
Character & Porosity of Soil Clay loam

Percolation Rate 80 MPI

Topography _____

Depth to Water Table 10' +

Rock or other impervious formations NONE OBSERVED



Plot of System

Size of Tank 1000 Gals.

Nitrification Field:

No. of Lines 2

Sq. Ft. 600 Linear Ft. 200

Depth of Stone in Lines 16"

Water Supply: Individual (✓)

Public ( )

Installed by _____

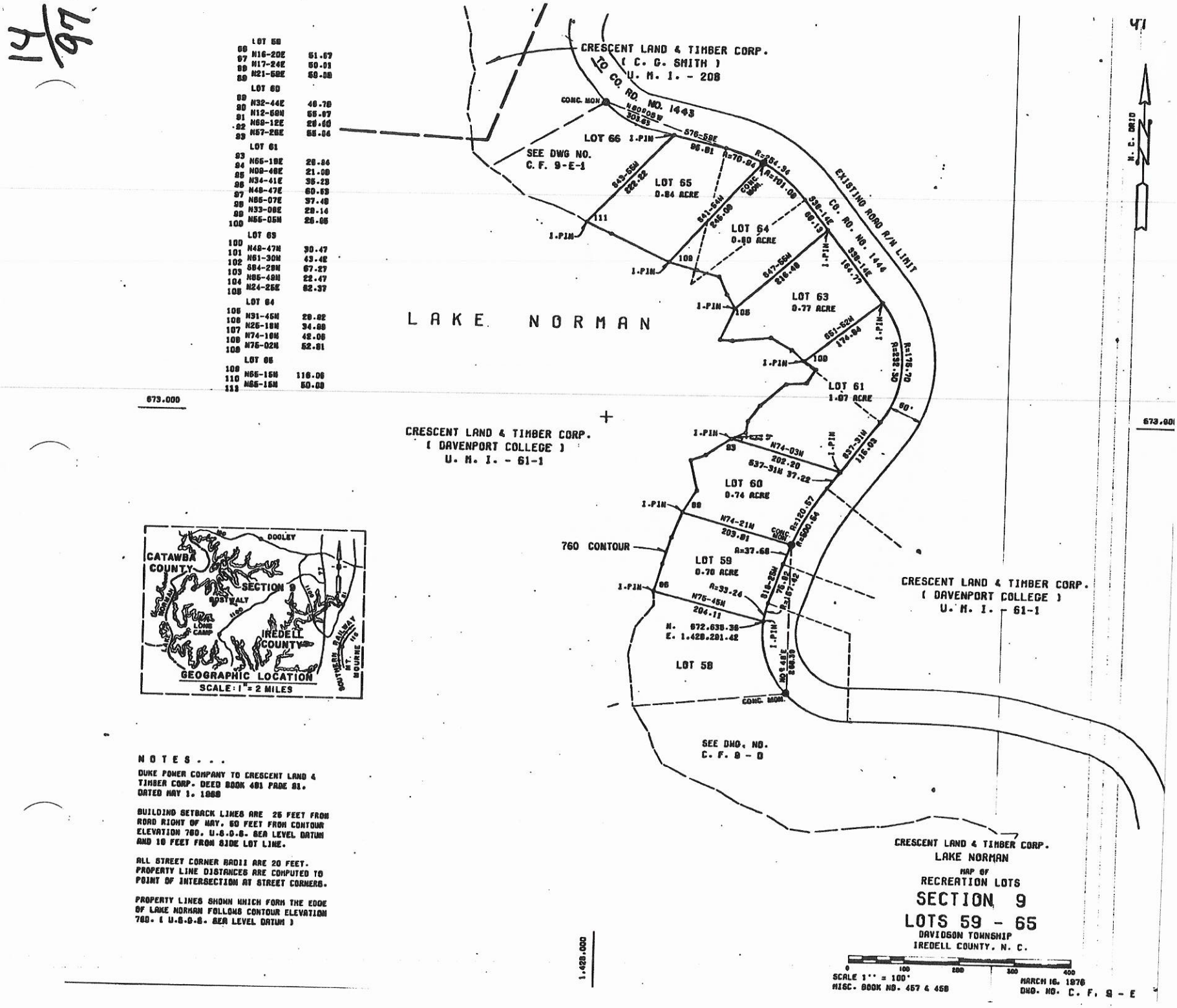
IMPROVEMENTS PERMIT BY Fred Clemmer / JC Moore

COMMENTS: _____

CERTIFICATE OF COMPLETION BY _____ DATE _____

CONSTRUCTION MUST COMPLY WITH ALL OTHER APPLICABLE STATE AND LOCAL REGULATIONS.

Health Dept. Copy: White Inspection Dept. Copy: Yellow Sanitarian's Copy: Pink Owner's Copy: Gold



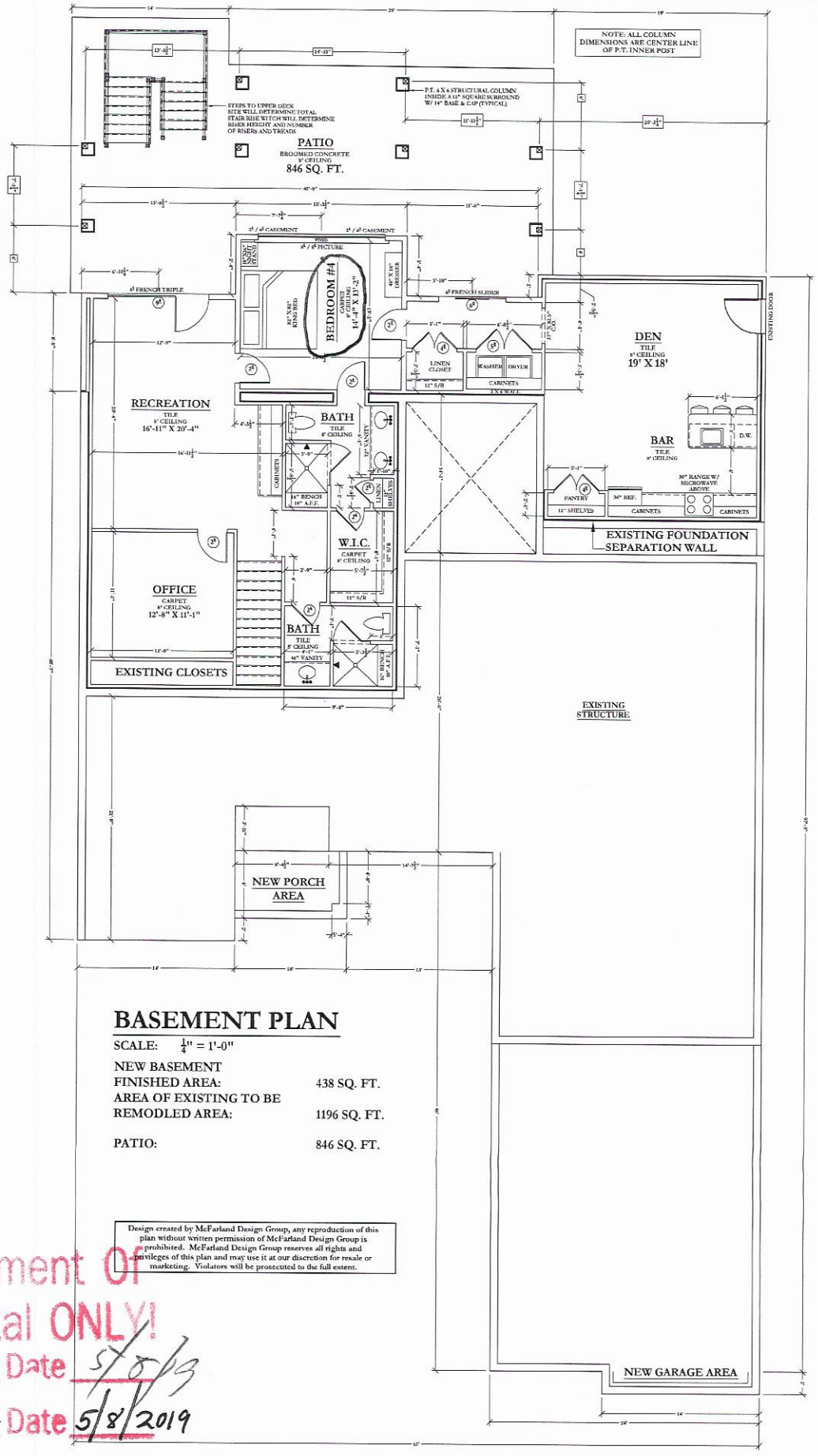
NOTES . . .

DUKE POWER COMPANY TO CRESCENT LAND & TIMBER CORP. DEED BOOK 491 PAGE 81. DATED MAY 1, 1968

BUILDING SETBACK LINES ARE 25 FEET FROM ROAD RIGHT OF WAY, 60 FEET FROM CONTOUR ELEVATION 760. U.S.G.S. SEA LEVEL DATUM AND 10 FEET FROM SIDE LOT LINE.

ALL STREET CORNER RADII ARE 20 FEET. PROPERTY LINE DISTANCES ARE COMPUTED TO POINT OF INTERSECTION AT STREET CORNERS.

PROPERTY LINES SHOWN WHICH FORM THE EDGE OF LAKE NORMAN FOLLOWS CONTOUR ELEVATION 760. (U.S.G.S. SEA LEVEL DATUM)



BASEMENT PLAN

SCALE: $\frac{1}{4}$" = 1'-0"

NEW BASEMENT FINISHED AREA:	438 SQ. FT.
AREA OF EXISTING TO BE REMODLED AREA:	1196 SQ. FT.
PATIO:	846 SQ. FT.

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Acknowledgement Of Plans Submittal ONLY!

Date 5/6/19

Date 5/8/2019

Basement Plan — Sheet A-3

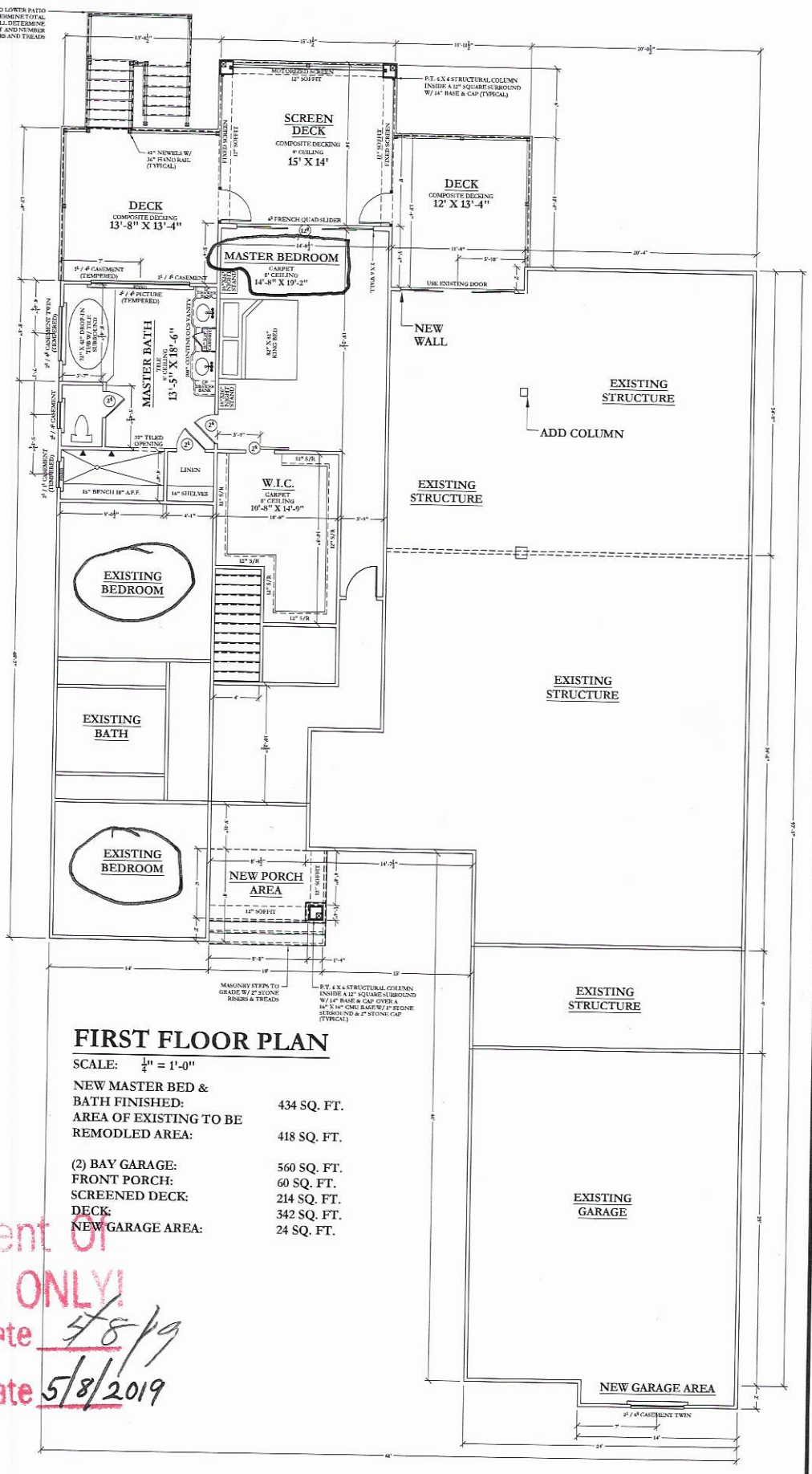
McFarland Design Group Inc.
342 Highway 16 North, Denver, NC 28037
980-722-1726
www.mcfarlanddesign.com

"The Grissom Residence"
510 Beaten Path, Mooresville,
Iredell County, NC 28117

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General Notes

Inspected



FIRST FLOOR PLAN

SCALE: $\frac{1}{4}$" = 1'-0"

NEW MASTER BED & BATH FINISHED:	434 SQ. FT.
AREA OF EXISTING TO BE REMODLED AREA:	418 SQ. FT.
(2) BAY GARAGE:	560 SQ. FT.
FRONT PORCH:	60 SQ. FT.
SCREENED DECK:	214 SQ. FT.
DECK:	342 SQ. FT.
NEW GARAGE AREA:	24 SQ. FT.

Acknowledgement Of
Plans Submittal ONLY!

Date 4/8/19

Date 5/8/2019

First Floor Plan — Sheet A-4

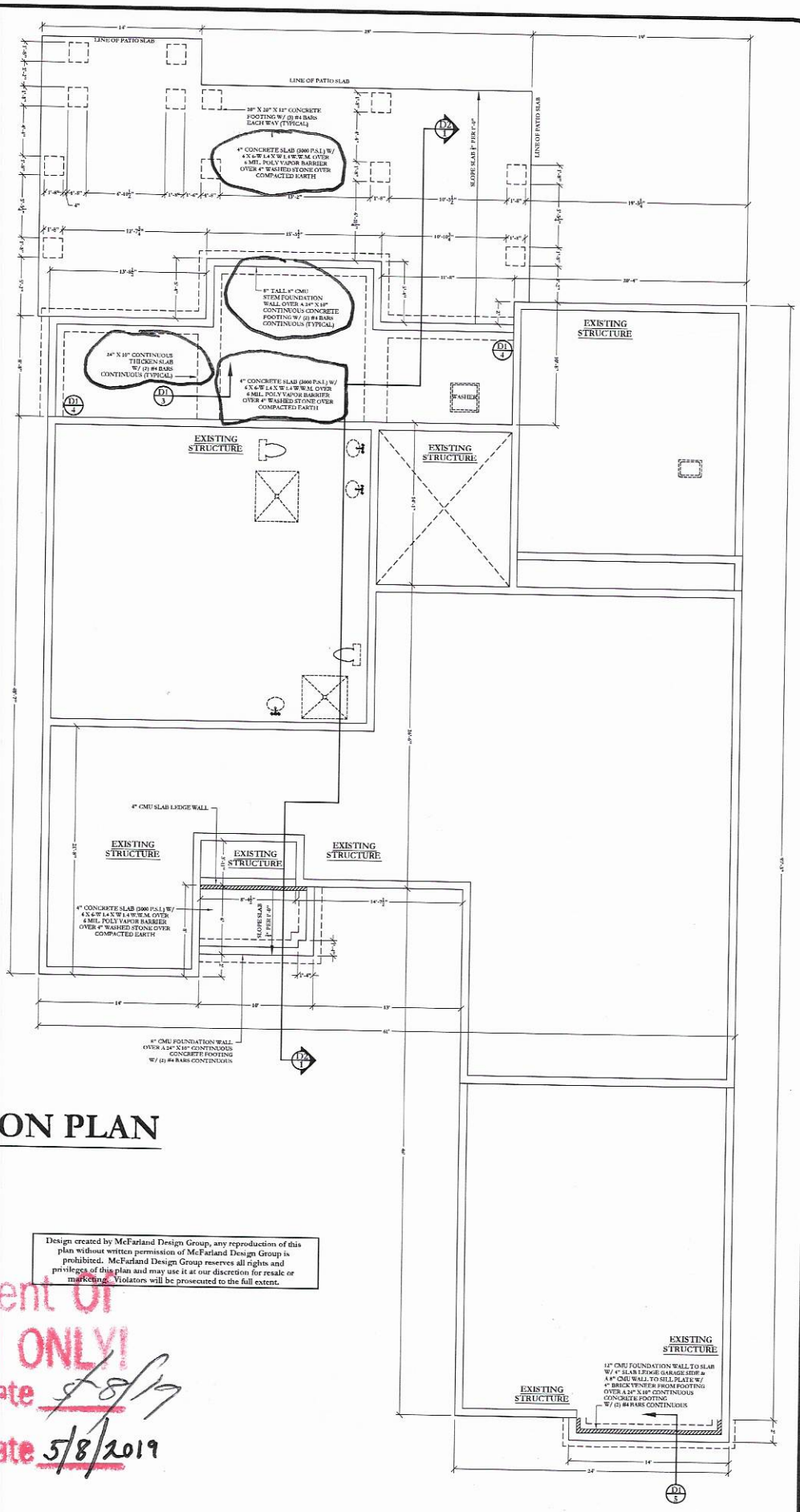
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General Notes

Registered



FOUNDATION PLAN

SCALE: $\frac{1}{4}$" = 1'-0"

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Acknowledgement Of Plans Submittal ONLY!

Date 5/8/19

Tom Shuck Date 5/8/2019

Foundation Plan — Sheet S-1

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General Notes

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IREDELL COUNTY

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

APPLICATION NUMBER
236416
Issue Date: 06/12/2018

ZONING PERMIT

Residential

Parcel Number	Street Address	Jurisdiction
4627823952.000	510 BEATEN PATH ROAD, MOORESVILLE, NC	IREDELL COUNTY

Owner Information	Applicant Information
Owner: GARRAGHAN GEORGE W+FRANCES D	Applicant: JS TESTA LLC- USE THIS
Address: 510 BEATEN PATH RD MOORESVILLE, NC 28117	Address: PO BOX 2573 19905 W.CATAWBA AVE., STE 202 CORNELIUS, NC 28031
Phone:	Phone: 704-892-2995

Use Requested	Zone Code
ADDITION	R20

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
.750	35.00	50.00	15.00	15.00	CACL	AE

Remarks:

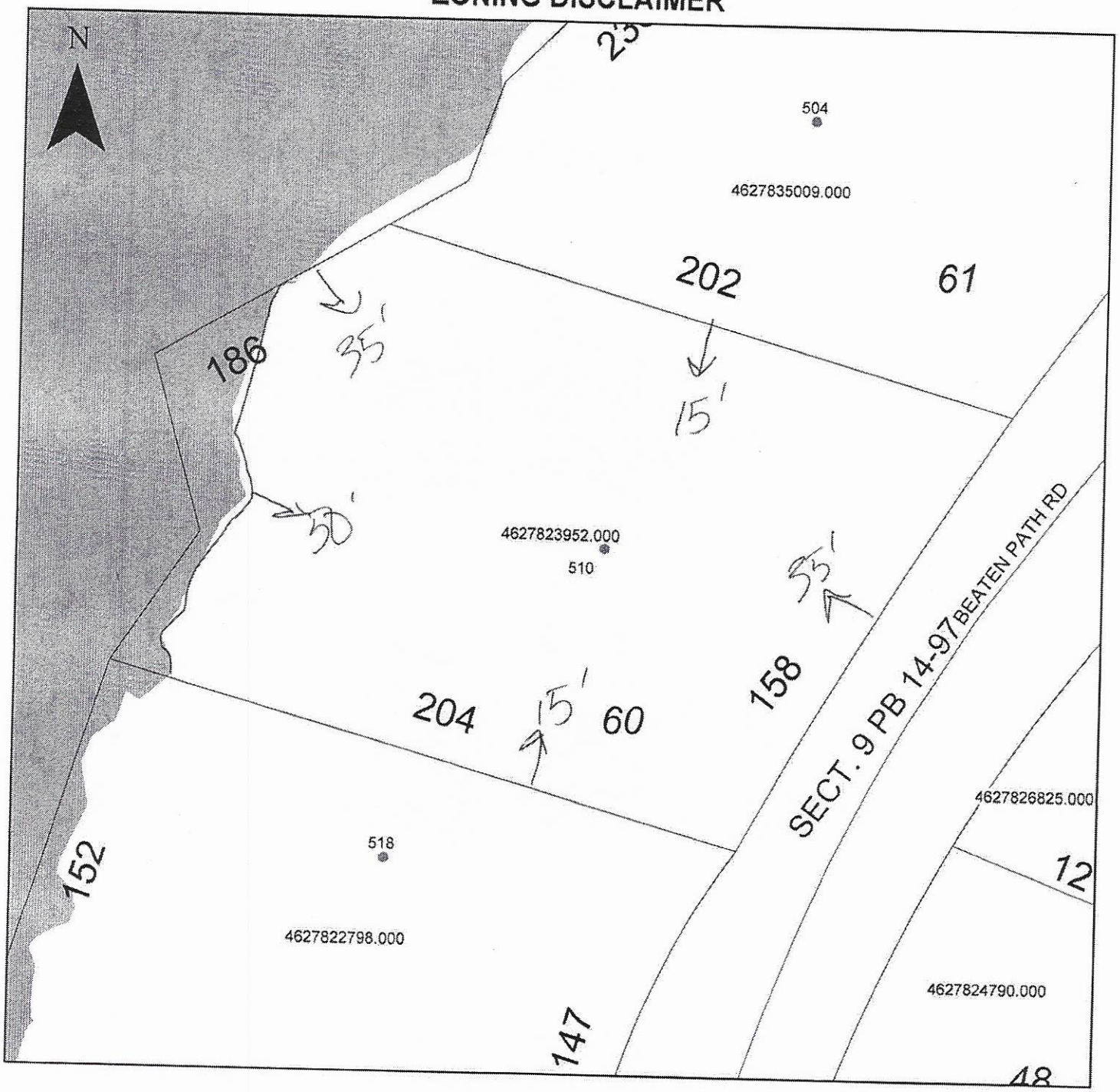
Must meet both the 50-foot setback from the 760 Æ contour line and the 35-foot setback from the rear property line for any structure.

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.

Applicant: _____ Date: _____

Permit Number	141999	TOTAL FEES:	$ 77.25

ZONING DISCLAIMER



Property Address 510 Beaten Path Rd

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. Applicant further acknowledges that the 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.

Applicant

6/12/18
Date