IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 232774

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

PIN # 4648 227 239

APPLICANT/OWNER: Roger Neill APPLICANT ADDRESS: 69 McInnis Rd Mooresville, NC 28117

SITE ADDRESS: 177 McInnis Rd Mooresville, NC 28117 PHONE: 704 962-1630 ALT. PHONE

SITE DIRECTIONS: Hwy 150 TR Bluefield TL Big Indian Loop TL McInnis lot at end SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Joe R. Stutts SECTION: — LOT # TR 2 LOT AREA: 2.16 Ac DESIGN FLOW: 240 L.T.A.R.: .25

Septic Tank	1000 (gal)	STB	794	Date	8-20-18	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms	2	Water Supply		
Pump Tank	1000 (gal)	PT	283	Date	8-19-18	System Description:	Pump-PM-25% Reduction			☐ Business	No. Persons	4	☒ Private		
Pump Make	Zoeller	Model	BN-98 B	Serial #	98-0005	Repair System Description:	Same			☐ Other	No. Employees		☐ Public		
# Nitrification Fields	1	# Lines	5	Linear Ft	242'	Maintenance Agreement Required:	☐ YES	☒ NO		☐ Slab	☒ Crawl Space		☐ Community		
Trench Width	36"	Trench Bottom Depth(Low side)	23"	Gravel Depth	N/A		☐ GRAVITY	☒ PRESSURE		☐ Basement w/plumbing			☐ Basement w/o plumbing		

Comments / Conditions:

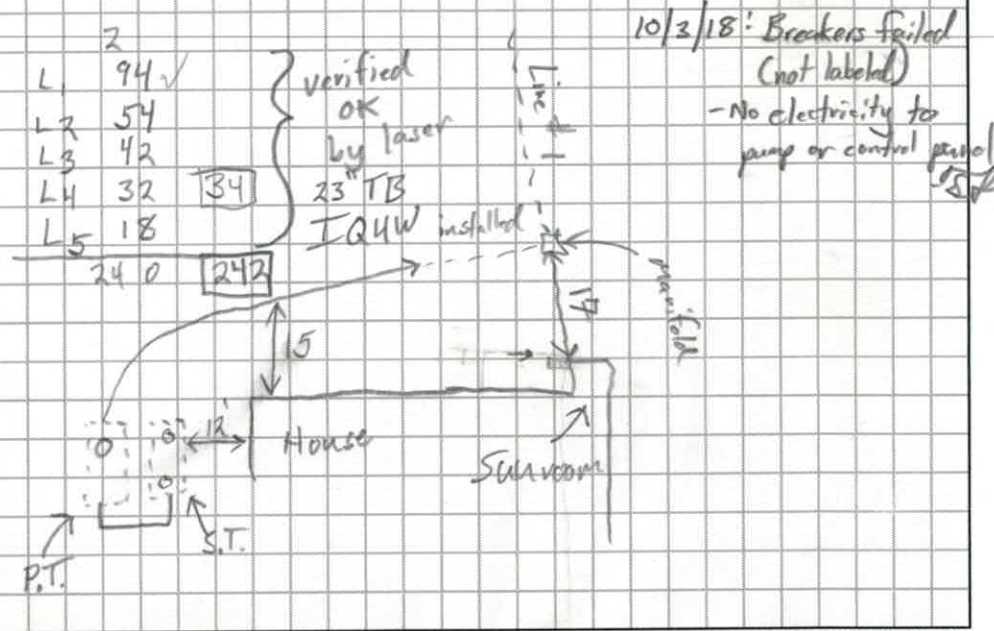
INITIAL SITE SKETCH

See attached, approved Septic plan by Carolina Soil & Septic Consulting, PLLC (dated 8/28/17

AS BUILT SKETCH

9/20/18: Mid-seam conc tank (Dellinger) 1000-gal w/ a Polylok PL-68 filter. Top seam 1000-gal pump tank (Dellinger)

10/3/18: Breakers failed (not labeled) - No electricity to pump or control panel



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**

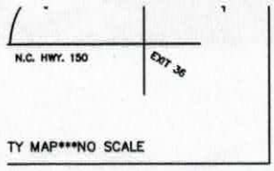
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☒ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☒ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Roger Neill Date: 9/14/18 Installed by: Britt Bass (Bass Grading)

IMPROVEMENT PERMIT by: Maria Dotson Date: 9/11/18 OPERATION PERMIT by: Krayla Wilson Date: 10-4-18

AUTHORIZATION TO CONSTRUCT by: Maria Dotson Date: 9/11/18 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.



TY MAP***NO SCALE

R/W = RIGHT-OF-WAY
CP = COMPUTED POINT

AUBREY TODD POOLE
913/1104

TONY L. GARIETY
2131\1765

GEORGE TERZIAN
1081\1562

JENNIFER RUCCI
2180\247

DENNIS W. MURDOCK
891/1294

DENNIS W. MURDOCK
740\16

RACT 1
R D. NEILL
07\2018

NNIS RD.
PUBLIC R\W)

Approved
9/11/18
MD

163.34
238.38 TOTAL
75.04
N74°19'40"E
53.46
100.73
101.21
528.16 TOTAL
S05°06'42"W
272.54
416.15
N04°18'36"W
(BASE BEARING)
35' REAR SETBACK
15' SETBACK
55' FRONT SETBACK
TRACT 2
2.16 AC.
EIP
IPS
PK
WELL
SHED
12'
16'
15'
10'
782.08'
ACTUAL HOUSE LOCATION
DRIVEWAY
EXISTING 15' ACCESS EASEMENT
R\W CONC. MON.
TBM 771.10'
S03°56'58"E
61.11
(TIE ONLY)
C1
S71°05'37"W
152.16
P1 7 P 782.42' 32"
6 R 782.09' 22"
P2
P3
P4
6 B 783.10' 42"
5 R 783.36' 52"
4 Y 783.78' 94"
P5
P6
3 O 784.69' 92"
2 P 785.32' 108"
1 B 783.77' 40"
PM
0' 30' 60' 100'
SCALE IN FEET
PB31PG15

NOTES

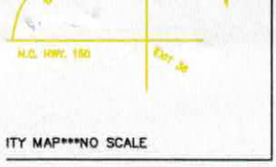
1) THIS PROPERTY MAY BE SUBJE TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) UNDERGROUND POWER
4) NO GRID MONUMENT FOUND W 2000 FEET.
5) PARCEL # 4648227239
6) DEED REF. BOOK 1176 PAGE 5
7) PLAT BOOK 31 PAGE 15
8) THIS PROPERTY IS NOT LOCATE FLOOD AREA

CURVE TABLE				
CURVE	RADIUS	LENGTH	BEARING	CHORD
C1	50.00'	129.68'	N 04°18'36" W	96.27'

BOUNDARY
OF
LOT 2 JOE R STUTTS PROPE

DAVIDSON TWSP., IREDELL CO., N.C.
SCALE = 1" = 60' DATE: AUG. 9, 2017.

OWNER: ROGER D. NEILL



ITY MAP***NO SCALE

R/W = RIGHT-OF-WAY
CP = COMPUTED POINT

AUBREY TODD POOLE
913/1104

TONY L. GARIETY
2131\1765

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DENNIS W. MURDOCK
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740\16

'RACT 1
R D. NEILL
07\2018

NNIS RD.
PUBLIC R\W)

TRACT 2
2.16 AC.

163.34
238.38 TOTAL
75.04
N74°19'40"E
35' REAR SETBACK
53.46
100.73
101.21
S05°06'42"W
328.16 TOTAL
272.54
416.15
15' SETBACK
15' SETBACK
N04°18'36"W
(BASE BEARING)
S03°56'58"E
61.11
(TIE ONLY)
S71°05'37"W
152.16
EIP
IPS
WELL
12' SHED
16'
PERMITTED HOUSE LOCATION
ACTUAL HOUSE LOCATION
782.08'
40.92'
38.58'
63'
DRIVEWAY
DRIVEWAY
EXISTING 15' ACCESS EASEMENT
P1
P2
P3
P4
P5
P6
PM
1 B 783.77' 40'
2 P 1285.32' 108'
3 Q 784.69' 92'
4 Y 783.78' 94'
5 R 783.36' 52'
6 R 783.10' 42'
7 R 22'
0' 30' 60' 100'
SCALE IN FEET

Approved
9/11/18 mD

*Permitted Septic in Green
*Proposed New Septic in Pink

NOTES
1) THIS PROPERTY MAY BE SUBJE TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) UNDERGROUND POWER
4) NO GRID MONUMENT FOUND WI 2000 FEET.
5) PARCEL # 4648227239
6) DEED REF. BOOK 1176 PAGE 56
7) PLAT BOOK 31 PAGE 15
8) THIS PROPERTY IS NOT LOCATE FLOOD AREA

CURVE TABLE				
CURVE	RADIUS	LENGTH	BEARING	CHORD
C1	50.00'	129.68'	N 04°18'36" W	96.27'

BOUNDARY
OF
LOT 2 JOE R STUTTS PROPE

DAVIDSON TWSP., IREDELL CO., N.C.
SCALE = 1" = 60' DATE: AUG. 9, 2017.
OWNER: ROGER D. NEILL

Carolina Soil & Septic Consulting, PLLC

P.O. Box 1703, Mooresville, NC 28115

Phone: (704) 202-5791 Email: adrianpruett@yahoo.com

NC Licensed Soil Scientist, SC Professional Soil Classifier,
Certified Septic System Operator, Licensed Septic Installer,
Certified Septic Inspector

**Proposed Design for a 25% Reduction Septic System
using Gravity distribution for a 2 bedroom single family residence
on Tract 2 of Joe R Stutts Subdivision, PIN# 4648227239
Mooresville, Iredell County, North Carolina.**

Contents: **Page**

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

Design Information
Design Specifications---------- 2
Layout Specifications---------- 3

Site Plan/System Plan---------- 4

Dosing Calculations---------- 5

Soil Profile Descriptions---------- 6-7

January 16, 2018
Project #: 17159
Design By: Adrian L. Pruett



Carolina Soil & Septic Consulting, PLLC

P.O. Box 1703, Mooresville, NC 28115

Phone: (704) 202-5791 Email: adrianpruett@yahoo.com

NC Licensed Soil Scientist, SC Professional Soil Classifier,
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**Proposed Design for a 25% Reduction Septic System
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**REVISED
January 31, 2018
Project #: 17159
Design By: Adrian L. Pruett**

INFORMATION FOR INSTALLER:

- The permit should be read very carefully prior to submitting bid. 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.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- The installer is responsible for final grades and returning that grade to original, with 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 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 has no more than 1/4"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 riser.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral to prevent unwanted lateral water movement.
- Elevations at pin flag locations should be checked by the installer prior to beginning trenches to insure 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.
- System is specified as an Accepted 25% Reduction Gravity installation.
- Repair is specified as Pressure Manifold 25% Reduction installation.
- Trench width is specified as 36" wide, rake and lime all trench sidewalls
- **If grading for slab foundation is utilized do not grade/create greater than 2 ft of elevation difference within 15 ft of any component of the septic or repair. If back filling do not backfill over any initial or repair septic line.**

OWNER INFORMATION

Owner:	Roger Neill
Address:	169 McInnis Rd Mooresville, NC 28117
Contact:	Roger Neill
Phone:	704-962-1630
County:	Iredell
Location:	JOE R STUTTS TRACT 2 PIN 4648227239
Source of Wastewater Flow:	2 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	240
System Flow:	NA

25% GRAVITY DESIGN INFORMATION

Drainfield Design Flow (gpd):	240
Loading/Soil Application Rate (gpd/ft.^{2}):	0.250
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Total Lateral Length From Layout:	240
Total Lateral Length Required:	240
Trench Depth:	23 in. Lowside
Trench Width:	36 in.
TOTAL AREA TRENCH BOTTOM:	720
Trench Spacing on Center:	9 ft.
Repair Trench Spacing:	9 ft.
Repair Trench Depth:	36 in.
Septic Tank Size:	1000 gal.
Estimated Supply Line Length:	6
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	2.16
Dosing Volume:	NA
Supply Manifold:	SERIAL DISTRIBUTION
Additional Comments:	Soil suitability was performed by Adrian L. Pruett LSS

JOE R STUTTS TRACT 2 PIN 4648227239
FIELD LAYOUT SPECIFICATIONS

LAYOUT FOR 2 BEDROOM RESIDENCE — January 31, 2018

LINE #	FLAG COLOR	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM			NA		
HOUSE CRN		NA	NA		
P. TANK		NA	NA		
1	PINK	NA	NA	124	124
2	ORANGE	NA	NA	123	123
3	*YELLOW*	*NA*	*NA*	*97*	*94*
4	*RED*	*NA*	*NA*	*106*	*50*
5	*BLUE*	*NA*	*NA*	*95*	*40*
6	*PINK*	*NA*	*NA*	*67*	*34*
7	*RED*	*NA*	*NA*	*25*	*22*
			Total	**637**	**487**

	LINE LENGTH	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
System	*240*	*ACCEPT.*	*0.250*	*25% RED.*	*GRAVITY*
Repair	247	*ACCEPT.*	0.250	25% RED.	GRAVITY

Notes: ** TBM Is Not Required.
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags

Comments: **Pumbing of house to be placed at a depth to achieve gravity fall to the septic tank and to the septic lines. Trench bottom of lines must be noted before pumbing is stubbed out.**
Iredell County has CS&SC's permission to change septic tank location and distribution type

DOSING CALCULATIONS

Location Joe R Stutts
Lot No.: Tract 2
Address:

No. of Bedrooms	2
Design Flow	240 $^{gal}/_{day}$
LTAR	0.250 $^{gal}/_{ft^2\ day}$
25% RED. Expansion? (YES OR NO)	YES
Supply Line Length	6 ft.
Supply Line Volume	2.16 gal.
Required Feet of 25% RED. Line	240 ft.
Amount of Line from Layout	240 ft.
Gallons per Minute	NA $^{gal}/_{min}$
Septic Tank Capacity	1000 gal.
Minimum Septic Tank Capacity	1000 gal.
Lateral Line Volume	156.72 gal.

PRESSURE MANIFOLD TAPSHEET - JOE R STUTTS TR2, 177 MCINNIS RD

SYSTEM

Line #	Color	Elev	Length	Hole Size	Flow/Tap	gpd	Trench Area	Line LTAR
4	*YELLOW*	*783.78*	*94*	SCH 80 3/4	**10.1**	43.51	282	0.15
5&6	*R&B*	*783.36*	*94*	SCH 80 3/4	**10.1**	43.51	282	0.15
7&8	*P&R*	*782.42*	*54*	SCH 80 1/2	**5.48**	23.61	162	0.15
	total	**feet =**	**242**	**gal/min =**	**25.68**			
			Des. Flow	**240**				
			Pump Run=	**4.31**				
			LTAR	**0.250**				

Some lines flagged longer in the field, shorten to lengths shown here.

Approved
9/11/18
MD

CALCULATIONS

Location 177 MCINNIS RD
Subdivision: JOE R STUTTS
Lot No: TR2

Approved
9/11/18
MD

No. of Bedrooms	2	
Design Flow	240	$^{gal}/_{day}$
LTAR	0.25	$^{gpd/ft^2}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	66	ft.
Supply Line Volume	11.484	gal.
Required Feet of Line	240	ft.
Amount of Line from Layout	242	ft.
Gallons per Minute	25.68	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	158.026	gal.
Dosing Volume	110.62	gal.

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

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

Tank Draw Down	5.3	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	4.31	minutes
Elevation Head	8.28	ft.
Pressure Head	2	ft.
Friction Factor	1.27	ft./100 ft. *(From the interpolater.)*
Friction Head	0.84	ft.
Total Dynamic Head (+20%)	13.34	ft.

PROPERTY ID #: 4648227239
COUNTY: Iredell

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

OWNER: Roger Neill
ADDRESS: 169 McInnis Rd., Mooresville, NC 28117
PROPOSED FACILITY: Residential
PROPOSED DESIGN FLOW (.1949): 240 gpd
LOCATION OF SITE: McInnis Rd., Mooresville, NC PIN
APPLICATION DATE
DATE EVALUATED: 12-6-17
PROPERTY SIZE: 2.16 ac.
PROPERTY RECORDED: Yes
WATER SUPPLY: X Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring X Pit ☐ Cut
TYPE OF WASTEWATER: X Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
P 1	LSS 4%	0-6	B CL WFSBK	FR SS SP SEXP	-FEW Y MINERALS, FEW LITHO, FEW YB ->1" PEDS, COM Y AND CHR 2 MINERALS, FEW CHR 2	40"	N/A	N/A	PS
		6-16	R C WFSBK/ABK	FR SS SP SEXP					
		16-20	R C MMABK	FI S P SEXP					
		20-29	R C MMABK	FI S P SEXP					0.25 GPD/SQFT TO 29"
		29-40	YB C /SC SABK M	FI S P SEXP					
P 2	LSS 4%	0-9	B CL WFSBK	FR SS SP SEXP	N/A	52"	N/A	N/A	PS
		9-33	R C MMABK	FI S P SEXP					
		33-39	R C MFABK	FI S P SEXP	-FEW MN				0.275 GPD/SQFT TO 39"
		39-52	R C MFABK	FI S P SEXP	-FEW MN, FEW YB				-0.25 GPD/SQFT TO 52"
P 3	LSS 5%	0-10	B CL WFSBK	FR SS SP SEXP	-FEW Y MINERALS, FEW YB -COM Y MINERALS, COM R C, COM CHR 2, CHR 2 LITHO	49"	N/A	N/A	PS
		10-24	R C MMABK	FI S P SEXP					
		24-37	R C MMABK	FI S P SEXP					
		37-49	YB C/SC M	FI S P SEXP					0.25 GPD/SQFT TO 37"
P 4	LSS 6%	0-11	B CL WFSBK	FR SS SP SEXP	N/A -FEW/COM MN -FEW/COM MN, FEW YB	54"	N/A	N/A	PS
		11-17	RB CL WFSBK	FR SS SP SEXP					
		17-41	R C MMABK	FI S P SEXP					0.275 GPD/SQFT TO 41"
		41-54	R C MFABK	FI S P SEXP					0.25 GPD/SQFT TO 54"

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	GRAVITY 25%	PM 25%
Site LTAR	0.25	0.25

OTHER FACTORS (.1946): NONE
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: ADRIAN L. PRUETT
OTHER(S) PRESENT: JACOB CONRAD, DAVID BEANE

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

PROPERTY ID #: 4648227239
DATE OF EVALUATION: 12/6/17
COUNTY: IREDELL

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
P 5	LSS 6%	0-10	B CL WFSBK	FR SS SP SEXP	N/A -FEW/COM MN -FEW YB	55"	N/A	N/A	PS 0.25 GPD/SQFT
		10-27	R C MMABK	FI S P SEXP					
		27-55	R C MMABK	FI S P SEXP					
P 6	LSS 6%	0-12	B CL WFSBK	FR SS SP SEXP	N/A -FEW/COM MN -COM MN, FEW YB	51"	N/A	N/A	PS 0.275 GPD/SQFT TO 36" 0.25 GPD/SQFT TO 51"
		12-23	R C MFABK	FI S P SEXP					
		23-36	R C MFABK	FI S P SEXP					
		36-51	R C WFABK	FI S P SEXP					

COMMENTS: _____

Chroma 1 & 2 in plat

RECEIVED JAN 24 2018

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Paid $350.00

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

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

****

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

232774

The following optional attachments may also be submitted: (X) 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: ROGER NEILL/CS&SC **Address:** 169 MCINNIS RD., MOORESVILLE, NC **Zip:** 28117

Applicant Email: rneill@eldecoinc.com **Phone:** 704-962-1630 **Alt. Phone:** _____

Owner Name: SAME **Address:** _____ **Zip:** _____

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

****

Property Information:

Street Address: 177 MCINNIS RD., MOORESVILLE

Subdivision Name: JOE R. STUTTS **Section/Phase:** _____ **Lot Number:** TR 2

Driving Directions: HWY 150 W, TR ON BLUE FIELD, TL ON BIG INDIAN, TL ON MCINNIS, LOT AT END

****

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

CHECK FOUNDATION TYPE

(X) New Single Family Residence — Maximum Number of Bedrooms: 2 — (X) Crawl Space Foundation
( ) New Multi-Family Residence — Maximum Number of Occupants: 4 — ( ) Concrete Slab Foundation
( ) Accessory Building — ( ) Swimming Pool — ( ) Basement with Plumbing
( ) Bedroom(s) Addition — ( ) Other Addition/Structure: _____ — ( ) Basement without Plumbing
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____

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

****

Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well Number of Houses: _____ Number of Persons: _____

(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 (X) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

****

Please answer the following to the best of your ability:

( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

****

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

Signature: _____ 1-20-18
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

LIMITED RELAYOUT 232774

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

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

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

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

The following optional attachments may also be submitted: (X) 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: ROGER NEILL/CS&SC Address: 169 MCINNIS RD., MOORESVILLE, NC Zip: 28117

Applicant Email: rneill@eldecoinc.com Phone: 704-962-1630 Alt. Phone: _____

Owner Name: SAME Address: _____ Zip: _____

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

Property Information:

Street Address: 177 MCINNIS RD., MOORESVILLE

Subdivision Name: JOE R. STUTTS Section/Phase: _____ Lot Number: TR 2

Driving Directions: HWY 150 W, TR ON BLUE FIELD, TL ON BIG INDIAN, TL ON MCINNIS, LOT AT END

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

CHECK FOUNDATION TYPE

(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: 2
Maximum Number of Occupants: 4
( ) Swimming Pool
( ) Other Addition/Structure: _____

(X) 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: _____

(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 (X) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

Please answer the following to the best of your ability:

( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

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

Signature: _____ 8-29-18
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, Roger Neill, am the legal owner(s) of the property located at 177 McEwen's Rd., Mooresville NC 28117, identified as PIN (Parcel Identification Number) 4648227239, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Adam Pruett C&LSC, _____, 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.

Roger D Neill	12/15/17	_____	_____
Signature of Owner(s)	Date	Signature of Witness	Date

Please return this signed form to the appropriate office:

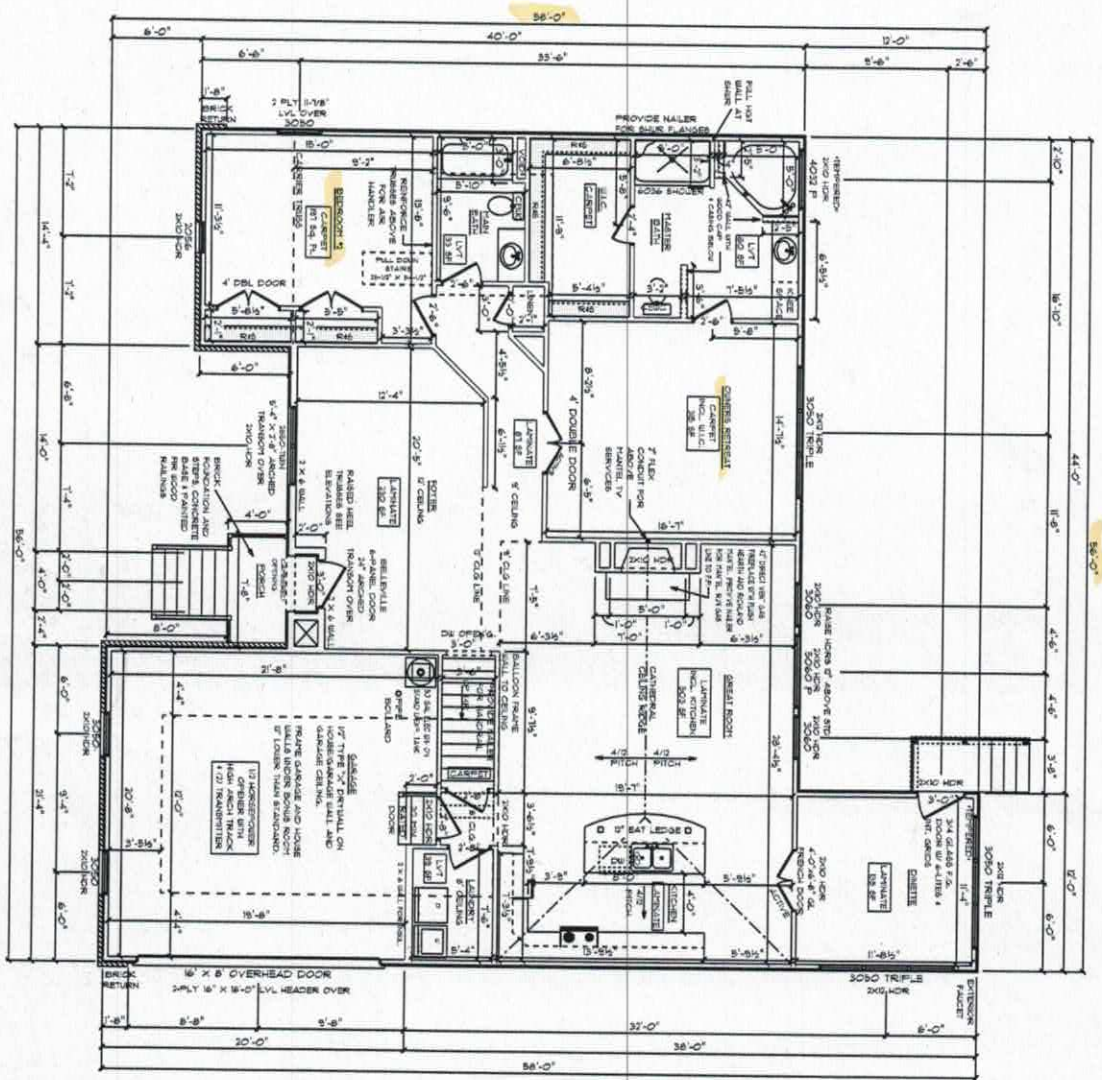
Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

Acknowledgement of
Plans Submittal ONLY!

Date 3-21-18

Date 3-26-18



OAKLEY 'D' / CUSTOM
MAIN FLOOR PLAN
& CEILING HEIGHT

GENERAL FRAMING NOTES:
DRYWALLED OPENINGS TO BE 6'-8" HEIGHT UNLESS OTHERWISE NOTED
HEADERS TO BE 2-PLY 2X10 W/ (2) KING & (1) JACK STUDS UNLESS OTHERWISE NOTED

PLAN NOTES:
SMOOTH CEILINGS THROUGHOUT HOME
5-1/4" BASEBOARDS
5-1/4" CASING ON INTERIOR DOORS AND WINDOWS
WINDOWS HAVE DRYWALLED RETURNS
4' DBL DOOR, HOLLOW CORE MOLDED INTERIOR DOORS
PLY-GEM LOUISE VINYL SIDEWALL

FLOORING NOTES:
TILE TO BE INSTALLED IN BATHROOMS, LAUNDRY, & ENTRANCE OF DOOR OPENINGS UNLESS OTHERWISE NOTED
FLOORING SQUARE FOOTAGES INCLUDE CLOSETS RELATIVE TO THE AREA UNLESS OTHERWISE NOTED
ROPE FLOORING SQUARE FOOTAGES THAT INCLUDE HALLS OR AREAS THAT CONNECT WITHOUT WALL SEPARATION IF THE BATHROOM IS CONTINUED

FINAL DRAWING APPROVED: 02/13/18
REVISED ON: 00/00/00

SCHUMACHER HOMES
Charlotte, NC
341 Alcove Road
Mooresville, NC 28117
(877) 267-3482
www.schumacherhomes.com

CUSTOM BUILT FOR: ROGER AND DEBORAH NEILL
JOB #: CH 675 011 0320 CN #: 256-675
LOCATION: MOINNS ROAD, MOORESVILLE, NC, 28117, IREDELL COUNTY

SQUARE FOOTAGES:
MAIN FLOOR = 1526 SQ. FT.
UNFIN. BONUS ROOM = 241 SQ. FT.
GARAGE = 450 SQ. FT.
PORCH = 8 SQ. FT.
FOUNDATION = 1543 SQ. FT.

DRAWN BY: DMB
DATE: 2/13/2018
SCALE: 1/8" = 1'-0"
DWG: 6

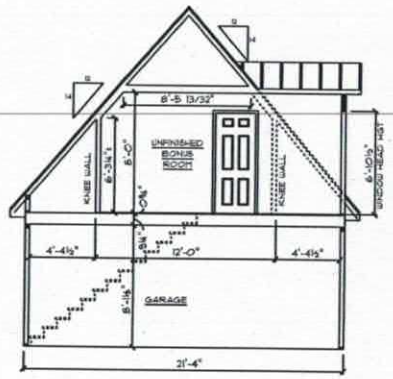
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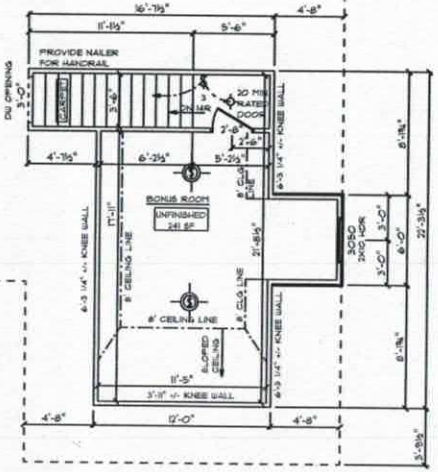
Acknowledgement of
Plans Submittal ONLY!

Date 3-21-18

Date 3-26-18

FINAL DRAWING APPROVED:
02/13/18
REVISED ON:
00/00/00





GENERAL FRAMING NOTES:
- DRYWALLED OPENINGS TO BE 6'-8" HEIGHT UNLESS OTHERWISE NOTED
- HEADERS TO BE 2-PLY 2X10 W/ (2) KING & (1) JACK STUDS UNLESS OTHERWISE NOTED

PLAN NOTES:
- SMOOTH CEILINGS THROUGHOUT HOME
- PAINTED TRIM
- 5-1/4" BASEBOARDS
- 3-1/4" CASING ON INTERIOR DOORS AND WINDOWS HAVE DRYWALLED RETURNS
- 6-PANEL HOLLOW CORE MOLDED INTERIOR DOORS
- FLY-GEM LOW-E VINYL WINDOWS

FLOORING NOTES:
- ALL FLOORING BREAKS OCCUR @ CENTER LINE OF DOOR OPENINGS UNLESS OTHERWISE NOTED
- FLOORING SQUARE FOOTAGES INCLUDE CLOSETS RELATIVE TO THE AREA UNLESS OTHERWISE NOTED
- SOME FLOORING SQUARE FOOTAGES MAY INCLUDE HALLS OR AREAS THAT CONNECT WITHOUT WALL SEPARATION IF THE SAME FINISH IS CONTINUED

GENERAL ELECTRICAL NOTES:
- (1) EXISTING SWITCH UPGRADED TO A 3-WAY SWITCH, (1) ADDITIONAL 3-WAY SWITCH AND (1) COACH LIGHT WIRED TO A STANDARD SWITCH ARE INCLUDED WHEN A GARAGE SERVICE DOOR IS PURCHASED
- (1) COACH LIGHT, (1) SWITCH, AND (1) GFI OUTLET ARE INCLUDED WHEN ANY ADDITIONAL DOOR IS PURCHASED, EXCLUDING THE GARAGE SERVICE DOOR
- ALL SMOKE DETECTORS TO BE INTERCONNECTED WITH BATTERY BACKUP
- E3902.11 ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT, SINGLE- PHASE, 15- AND 20-AMPERE OUTLETS INSTALLED IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS AND SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
- GARAGE DOOR LOW VOLTAGE WIRING BY ELECTRICIAN
- TWO SEPARATE KITCHEN GENERAL ELECTRIC OUTLET CIRCUITS FED BY NUMBER 12 WIRE AND ON 20 AMP BREAKERS REQUIRED IN KITCHEN
- ALL OUTLETS INSTALLED IN BATHROOMS, GARAGES, & UNFINISHED BASEMENTS SHALL HAVE GFCI PROTECTIONS ALONG WITH OUTLETS LOCATED WITH 6'-0" OF LAUNDRY, UTILITY & WET BAR SINKS & ALL OUTLETS SERVING KITCHEN COUNTERTOP SURFACES
- ALL OUTLETS TO BE PLACED PER CODE

OAKLEY 'D' / CUSTOM
BONUS ROOM PLAN
8' CEILING HEIGHT

DRAWN BY: DMB
DATE: 2/13/2018
SCALE: 1/8" = 1'-0"
SHEET: 9

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SQUARE FOOTAGES:
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UPPR. BONUS ROOM = 241 SQ. FT.
GARAGE = 480 SQ. FT.
PORCH = 45 SQ. FT.
FOUNDATION = 1543 SQ. FT.

CUSTOM BUILT FOR: ROGER AND DEBORAH NEILL
JOB #: CH 878 CIT 0320
LOCATION: MONNIS ROAD MOORESVILLE, NC. 28117 IREDELL COUNTY
DR. #: 2948

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