IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 223096

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

PIN # 4628-97-6493

APPLICANT/OWNER: Clifford Swinger APPLICANT ADDRESS: 114 Fern Haven Lane Mooresville, NC

SITE ADDRESS: 114 Fern Haven Lane Mooresville, NC PHONE: 704-929-7587 ALT. PHONE

SITE DIRECTIONS: Fern Hill Rd East from Perth Rd → R onto Fern Haven → House on Right SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: CL+T SECTION: 15 LOT # 104 LOT AREA: 0.71 acres DESIGN FLOW: 360 GPD L.T.A.R.: 0.275

Septic Tank 2×1000 (gal) STB infiltrator Date —
Pump Tank — (gal) PT — Date —
Pump Make — Model — Serial # —
Nitrification Fields 1 # Lines 6 Linear Ft 327
Trench Width 36" Trench Bottom Depth(Low side) 30" Gravel Depth —

☐ New System ☐ Repair ☒ Expansion System Type: I II III IV V VI
System Description: 25% Reduction
Repair System Description: TSII Drip @ 0.125 LTAR
Maintenance Agreement Required: ☐ YES ☒ NO
☒ GRAVITY ☐ PRESSURE

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

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Whole-house ejector pump requires 2 septic tanks in a series. Recommend a larger grade filter on outlett tee of 2nd septic tank. Recommend pumping both tanks every 5 years. Existing septic tank to be pumped + crushed in place. Re-direct swale/berm to property line to ensure proper offsets.

DRAIN LINES MEET SETBACK FOR BASEMENT UNDER DECK BA

INITIAL SITE SKETCH

See attached drawing from Benfield Landscape + Design
Dated: 4/19/2017
Approved: 6/7/2017 by SR

AS BUILT SKETCH

9-29-17: Tanks checked. Still need effluent filter => check when drain lines are inspected KW

	Date	Initials
Drain Lines Checked	10-2-17	BA
Tanks Checked	9-29-17	KW
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Y/N	not required	
Comments:		

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

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

Owner / Applicant Signature: Clifford Swinger Date: 6/7/2017 Installed by: Shane Cashion

IMPROVEMENT PERMIT by: Tom Shuck Date: 6/7/2017 OPERATION PERMIT by: BA-OS Date: 10-2-17

AUTHORIZATION TO CONSTRUCT by: Tom Shuck Date: 6/7/2017 Existing System Inspected by: Date:

LINE SCHEDULE

LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH (FT)
1	RED	3.0	41
2	ORANGE	5.2	43
3	BLUE	6.9	48
4	PINK	8.4	50
5	YELLOW	10.8	60
6	RED	11.8	58
7	ORANGE	13.0	27
		TOTAL	
		327	

LOT 104 FERN HAVEN

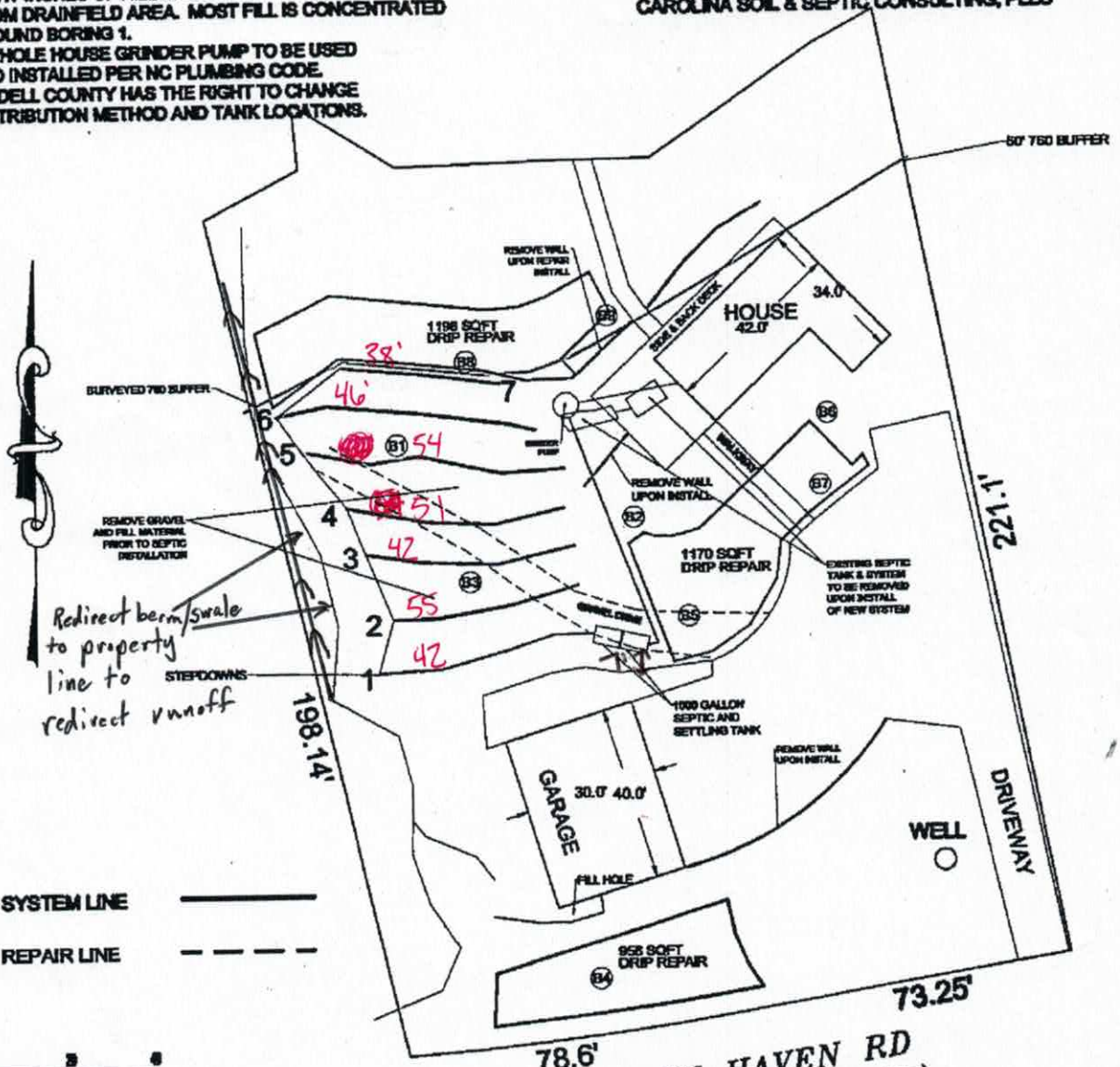
3-BEDROOM ACCEPTED GRAVITY SYSTEM
LINES 1-7 TOTAL 327 LINEAR FEET
EZFLOW OR CHAMBER
LTAR 0.275
25% REDUCTION
30" TRENCH BOTTOM LOW SIDE

3-BEDROOM PRE-TREATED TS-II DRIP REPAIR
2880 SQ FEET
LTAR 0.125
24" TRENCH BOTTOM

FOR GENERAL USE NOT A SURVEY
PRELIMINARY NOT FOR CONSTRUCTION

NOTES:
EIGHT INCHES OF FILL MATERIAL TO BE REMOVED FROM DRAINFIELD AREA. MOST FILL IS CONCENTRATED AROUND BORING 1.
A WHOLE HOUSE GRINDER PUMP TO BE USED AND INSTALLED PER NC PLUMBING CODE.
IREDELL COUNTY HAS THE RIGHT TO CHANGE DISTRIBUTION METHOD AND TANK LOCATIONS.

SOIL ANALYSIS AND APPLICATION RATES PROVIDED BY CAROLINA SOIL & SEPTIC CONSULTING, PLLC



SYSTEM LINE ——————

REPAIR LINE — — — —

SCALE:
1" = 40 ft. ✓

Approved 6/7/2017 by [illegible]

BL&D	Benfield Landscape & Design	CLIFF AND JULIE SWINGER	LOT 104 FERN HAVEN MOORESVILLE, NC IREDELL COUNTY

PROPERTY ID #: 4628976493
COUNTY: Iredell

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

OWNER: Cliff Swinger — APPLICATION DATE: ____
ADDRESS: 114 Fern Haven Ln, Mooresville NC 28117 — DATE EVALUATED: 4-10-17
PROPOSED FACILITY: Res. — PROPOSED DESIGN FLOW (.1949): 360 gpd — PROPERTY SIZE: 0.71
LOCATION OF SITE: 114 Fern Haven Ln, CL&T Lot 104 — PROPERTY RECORDED: Yes
WATER SUPPLY: ☑ Private ☐ Public ☐ Well ☐ Spring ☐ Other ____
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut — TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 1	LSS 10%	0-14	Fill		N/A	48"	N/A	N/A	PS .275
		14-21	B SCL Gr	Fr SS SP SE SP					
		24-34	B SC wFSBk	Fr SS SP SE SP	Com Mn				
		34-48	R C wFSBk	Fr S P SE SP	few Mn				
B 2	LSS 15%	0-19	Fill		N/A	19-42"	N/A	42"	PS .25/19-42"
		19-21	B CL wFSBk	Fr SS SP SE SP					
		21-42	R C wFSBk	Fr SP SE SP	few FB, few Mn				
		42	Rock						
B 3	LSS 15%	0-6	Fill		N/A	49"	NA	N/A	PS .275
		6-14	B SCL Gr	Fr SS SP SE SP	few Mn				
		14-19	YR SC wFSBk	Fr SS SP SE SP	few Mn				
		19-45	R C wFSBk	Fr SP SE SP	few Mn, few WR & Trans	31-45			
		45-49	R CL wFSBk	Fr SS SP SE SP	few Mn				
B 4	LSS 15%	0-6	B SCL Gr	Fr SS SP SE SP	N/A	38"	N/A	38"	PS .275-.25
		6-14	BR SC RCL	Fr SS SP SE SP	few Mn				
		14-38	R C wFSBk	Fr SS SP SE SP	few FB, few Mn				
		44" 38	Rock/Gravel						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Gravity 25%	TS-11 Drip
Site LTAR	0.275	0.125

OTHER FACTORS (.1946): ____
SITE CLASSIFICATION (.1948): ____
EVALUATED BY: [illegible]
OTHER(S) PRESENT: [illegible]
Holes 1-4 Evaluated by T.S.

COMMENTS: Approved 6/7/2017

LICENSED SOIL SCIENTIST — AUSTIN L. PRUETT — NORTH CAROLINA — 1314



SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

PROPERTY ID #: 4628976493
DATE OF EVALUATION: 4-18-17
COUNTY: Iredell

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	SOIL MORPHOLOGY (.1941) HORIZON DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B5	LSS 15%	0-13	F'll		N/A	13-33"	N/A	33"	PS
		13-16	B SCL G-	Fr SS SP SG-P					
		16-25	BR SC WFSBK	Fr SS SP SG-P					.15-.125
		25-33	R C WFSBK	Fr SS SP SG-P					13-33
		33	Rock						
B6	LSS 15%	0-17	F'll		N/A	17-48	N/A	N/A	PS
		17-19	B SCL G-	Fr SS SP SG-P					
		19-28	R C WFSBK	Fr SS SP SG-P					.3
		28-40	TR C/CL WFSBK	Fr SS SP SG-P	few SaP				17-48
		40-48	TR CL WFSBK	Fr SS SP SG-P	com SaP				
B7	NS 15%	0-9	F'll		N/A	9-48	N/A	N/A	PS
		9-14	BR CL WFSBK	Fr SS SP SG-P					
		14-38	R C WFSBK	Fr SS SP SG-P	few SaP				.3
		38-48	R CL WFSBK	Fr SS SP SG-P	com SaP				9-48
B8	SS 20%	0-9	F'll		N/A	9-48	NA	N/A	PS
		9-22	RB SCL/SL WFSBK	Fr SS SP SG-P					
		22-24	RB SCL GR	Fr SS SP SG-P					.275
		24-32	BR C WFSBK	Fr SS SP SG-P					
		32-48	R C WFSBK	Fr SS SP SG-P					
B9	LSS 18%	0-4	RB SCL GR	Fr SS SP SG-P	N/A	48"	N/A	N/A	PS
		4-11	RB SCL GR	Fr SS SP SG-P					
		11-36	R C WFSBK	Fr SS SP SG-P	few SaP				.3
		36-48	R CL WFSBK	Fr SS SP SG-P	com SaP				

COMMENTS:

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*

(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)

1. APPLICATION FOR: ___Improvement Permit ✓ Authorization To Construct ___ Existing System Inspection

2. 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 check ( ) beside whichever is submitted if applicable ___Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. Applicant Information:

Clifford Swinger	114 Fern Haven Lane Mooresville NC 28117	704 929 2587	
Applicant Name	Mailing Address	Home Phone #	Alternate Phone #
Clifford Swinger			
Owner Name	Mailing Address	Home Phone #	Alternate Phone #

4. Property Information:

Street Address | Subdivision Name | Section/Phase and Lot Number

Driving Directions: _____

5. RESIDENTIAL Site Development Information: *(Check or Complete ALL that apply)*

( ) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
(X) Repair To Failing Septic System due to _____
( ) Other _____

Maximum Number of Bedrooms 3
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

( ) Crawl Space Foundation?
( ) Concrete Slab Foundation?
( ) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non- Residential Site Development:
Type of Business _____
Square Footage of Building _____
Maximum Number of Employees _____
Maximum Number of Seats _____

6. Proposed Water Supply:

( ) New Well (X) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

7. Desired Septic System Type: *(You may rank in order of preference, if any)* ( ) EXISTING SYSTEM installed _____ Year

( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other_____

8. Please Answer The Following ( ) Yes ( ) No Does the site contain any jurisdictional wetlands?
To The Best of Your Ability: ( ) Yes ( ) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes ( ) No Is the site subject to approval by any other public agency?

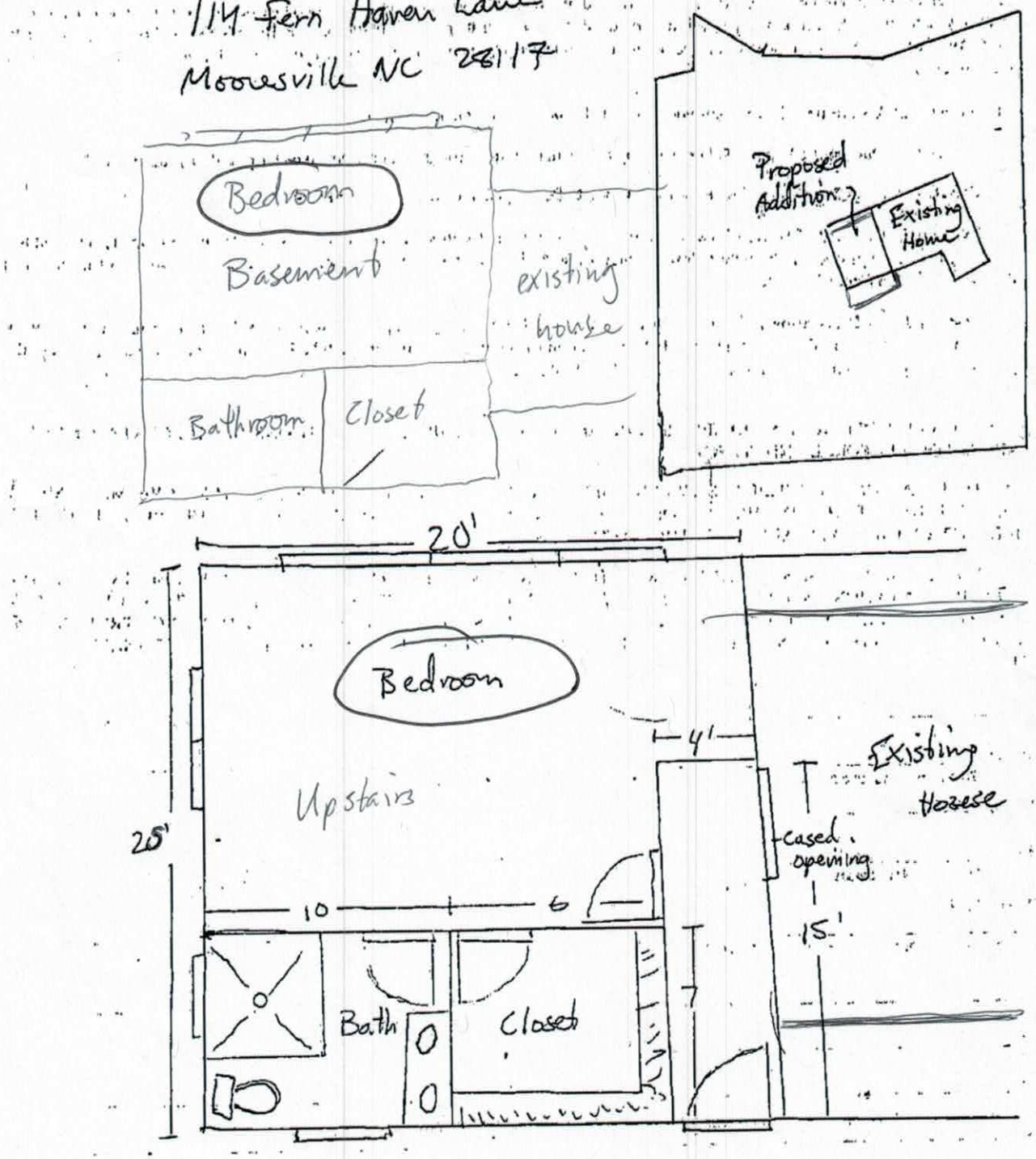
I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible 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.

9. Signature: _____
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

May 3, 2017
DATE

Clifford Swinger
Owner

Plans for Addition at
114 Fern Haven Lane
Mooresville NC 28117



Acknowledgement of
Plans Submittal ONLY!

Date 6/7/2017

Date 6/7/2017