IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 227376

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

PIN # 4624233282

APPLICANT/OWNER: Joseph Chickene APPLICANT ADDRESS: 2596 Brawley School Rd Mooresville NC

SITE ADDRESS: 2596 Brawley School Rd-Mooresville PHONE: 704-310-1832 ALT. PHONE N/A

SITE DIRECTIONS: Brawley School Rd past traffic Circle near end just past

SUBDIVISION: CL+T SECTION: 6 LOT # 1 LOT AREA: 1.983ac SAP CONTROLLED: ☐ YES ☒ NO

DESIGN FLOW: 720 L.T.A.R.: .3

Septic Tank	Ex (gal)	STB	Date				
Pump Tank	Ex (gal)	PT	Date				
Pump Make		Model	Serial #				
# Nitrification Fields		# Lines	1	Linear Ft	17'		
Trench Width	24"	Trench Bottom Depth(Low side)	36"	Gravel Depth	N/A		

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

System Description: Pump - LP-PPBPS (Relocation)

Repair System Description: LP PPBPS

Maintenance Agreement Required: ☐ YES ☐ NO

☐ GRAVITY ☐ PRESSURE

☒ Residence ☐ Business ☐ Other ☒ Slab ☒ Crawl Space ☐ Basement w/plumbing ☐ Basement w/o plumbing

No. Bedrooms 6 No. Persons 12 No. Employees

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Remove 17' off existing 80' line replace per plan

INITIAL SITE SKETCH

See plan by Michael Athanas + Assoc

AS BUILT SKETCH

6/28/2017
Panels checked
Pressure head checked.
Installed as drawn.

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: Joseph Paul Chickene Date: 6/6/17

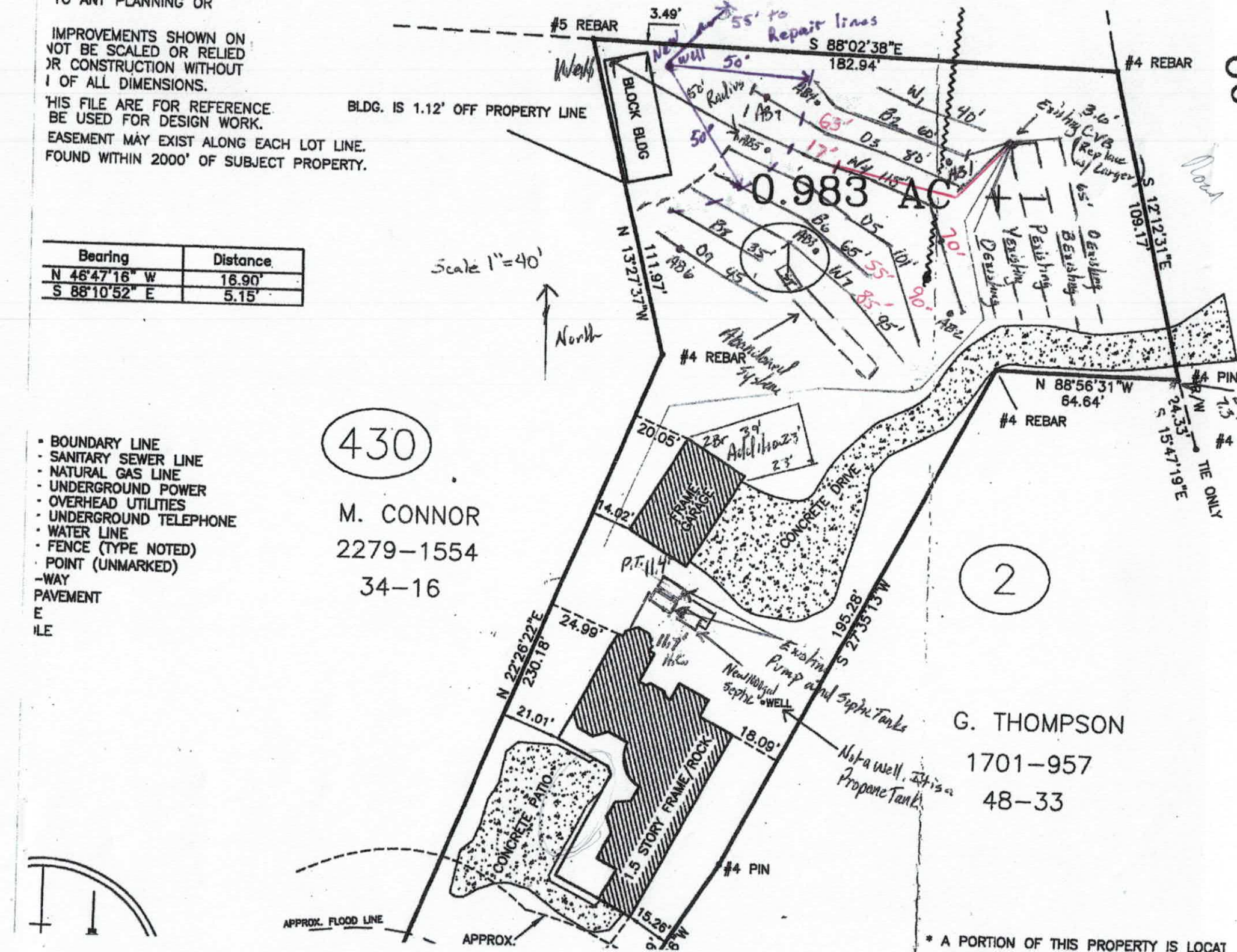
IMPROVEMENT PERMIT by: Date: 06/06/17

AUTHORIZATION TO CONSTRUCT by: Date: 06/06/17

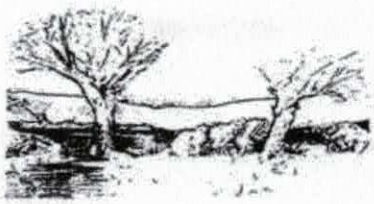
Installed by: Steve Jordan

OPERATION PERMIT by: Mohamed Dumarieh Date: 6/28/2017

Existing System Inspected by: Date:



Bearing	Distance
N 46°47'16" W	16.90'
S 88°10'52" E	5.15'



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 2596 Brawley School Road, Iredell County NC
Addition Footprint: 23'x39'
Building Setback: 35' Front/Rear, 15' Side,
Water Source: Private Well
Number of Additional Bedrooms: 2/240 gpd
Current number of Bedroom: 4/480 gpd
Proposed LTAR: 0.3 gpd/ft2
Suggested System Type: PPBPS/ 9' center
Distribution: LP-CVB
Flow per Orifice: .59
Hole Size & Material: 3/16"
Number of Panels: 95 Total (63* in existing and 32 in expansion)
System Flow: 56.05 gal/min
Dosing Volume: 342 gal/dose
Pump Run Time: 6.10 min
Total Linear Footage: 270' in existing; 140' in expansion
Trench Bottom Square Footage: 1230 sq.ft
Elevation Head: 12.8'
Friction Head: 2.58'
Pressure Head: 2'
Total Dynamic Head: 17.38'
Supply Line Length: 265'
Proposed Trench Bottom Depth: 36"
Septic/ Pump tank size: 1500gal ST or add a 1000gal ST to the existing tanks, 1000 PT

* This number is being assumed by MA&A due to the line lengths indicated on the original permit.

Existing System

Line	Actual Length	Design Length	# of Panels	Elevation
Orange 1	65'	n/a	15	n/a
Blue 2	65'	n/a	15	n/a
Pink 3	55'	n/a	13	n/a
Yellow 4	47'	n/a	11	n/a
Orange 5	38'	n/a	9	n/a

Expansion and Repair

Line	Actual Length	Design Length	# of Panels	Elevation
White 1	40'			3.3'
Blue 2	**60'**	**60'**	**14**	**3.8'**
Orange 3	**80' - 63'**	**80' – 63'**	**18 - 14**	**4.2'**
White 4	115'- 17' (in)/70'(r)		4	4.7'
Orange 5	101'- 90'			5.6'
Blue 6	65' – 55'			5.9'
White 7	95' – 85'			6.2'
Blue 8	35'			6.5'
Orange 9	45'			6.7'

Septic/Pump Tanks: 11.4' **CVB:** 3.6'
Initial System: 410' of PPBPS (270' in existing; 140' in expansion) **Repair System:** 502' 420'
Septic Tank/Pump tank: 1500 or additional 1000gal/1000gal existing pump tank.
Benchmark: 7.3' Front left corner iron of lot. (Facing the lot from the road.)

Comments: The purpose of the evaluation is to have the existing 4-bedroom system expanded to a 6-bedroom system.

- MA&A Inc, evaluated 7 auger borings on the site and are proposing using B2 and O3 for the needed additional footage to increase the system to a 6-bedroom. The additional area will be used for a PPBPS repair for 6-bedrooms.
- An additional 1000 gallon septic tank will need to be set in series with the existing septic tank. An additional option is to crush the existing tank and use a new 1500 gallon tank.
- MA&A was unable to locate the pressure line from the pump tank. If the line interferes with any of the proposed septic area, it will need to be rerouted around the proposed septic area.
- As noted above MA&A made the assumption of the total number of panels in the existing system due to the line lengths given in the existing permit.
- A 3" pressure line will need to be used due to the gpm pumped to the septic area.
- A larger Central Valve Box will need to be set to accommodate the additional valves needed.
- The existing well is located inside the block building on the right side of the property.\

MA&A are adjusting the existing system and repair area to reflect a new well location. The existing well is beginning to fail and a new well is needed. The changes in line lengths are shown in red. Seventeen feet (4 panels) must be removed from O3 and replaced in W4. The remainder of the W4 will be repair. Be advised, there are several larger trees and MA&A are showing the replacement line away from these trees.

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: Lot 10; Highland Ridge
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Joseph Chickene
ADDRESS: 2596 Brawley School Rd, Mooresville, NC 28117
PROPOSED FACILITY: 6-Bedroom Residence PROPOSED DESIGN FLOW (.1949): 600 GPD
LOCATION OF SITE: Lot 1; Brawley School Road

APPLICATION DATE:
DATE EVALUATED: 4/30/2015
PROPERTY SIZE: 0.98 Acres
PROPERTY RECORDED: 06/12/2014

WATER SUPPLY: ☐ Private ☐ Public * Well ☐ Spring ☐ Other
EVALUATION METHOD: Ξ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: Ξ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				Approved MD 5/21/15
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
AB 1	LS 4-6%	0"-24"	R C SBK	SS SP FR SEXP		48"	Few to common Saporlite Inclusions 24"-48"	None	.3
		24"-48"	R CL WSBK	SS SP FR SEXP					
AB 2	LS 4-6%	0"-6"	Fill			48"	Few to common Saporlite Inclusions 44"-48"	None	.3
		6"-15"	Br CL WSBK	SS SP FR SEXP					
		15"-44"	R C SBK	SS SP FR SEXP					
		44"-48"	R CL WSBK	SS SP FR SEXP					
AB 3	LS 4-6%	0"-4"	Fill			48"	Few to common Saporlite Inclusions 30"-48"	None	.3
		4"-15"	Br CL WSBK	SS SP FR SEXP					
		15"-30"	R C SBK	SS SP FR SEXP					
		30"-48"	R CL WSBK	SS SP FR SEXP					
AB 4	LS 4-6%	0"-15"	Br CL WSBK	SS SP FR SEXP		48"	Few to common Saporlite Inclusions 30"-48"	None	.3
		15"-48"	R C SBK	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1230 ft2	1506 ft2
System Type(s)	PPBPS	PPBPS
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT:

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 2596 Brawley School Road
DATE OF EVALUATION: 4/30/2015
COUNTY: Iredell

Approved MD 5/21/15

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
AB 5	LS 4-6%	0"-15"	Br CL WSBK	SS SP FR SEXP		48"	Few to common Saporlite Inclusions 40"-48"	None	.3
		15"-40"	R C SBK	SS SP FR SEXP					
		40"-48"	R CL WSBK	SS SP FR SEXP					
AB 6	LS 4-6%	0"-13"	Fill			48"		None	.3
		13"-23"	Br CL WSBK	SS SP FR SEXP					
		23"-48"	R C WSBK	SS SP FR SEXP					
AB 7	LS 4-6%	0"-12"	Br CL WSBK	SS SP FR SEXP		48"		None	.3
		12"-48"	R C SBK	SS SP FR SEXP					

COMMENTS:

Paid $700.00 6777

RECEIVED JUN 5 - 2017

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)

227376

1. APPLICATION FOR: X Improvement Permit X Authorization To Construct ___ Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application Paid $500.00 Relocation Pump Syst.

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:

Applicant Name	Mailing Address	Home Phone #	Alternate Phone #
Joseph Chickone	2596 Brawley Sch Rd Mooresville NC 28117		704 310 1852 (Gary CMA+A)
Owner Name	Mailing Address	Home Phone #	Alternate Phone #
Same			

4. Property Information:

Street Address	Subdivision Name	Section/Phase and Lot Number
2596 Brawley Sch	CL+T Sec 6	Lot 1

Driving Directions: Near End of BSR

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 _____
(X) Other Replacing Failing Well - Need to Adjust Septic to meet Set back

Maximum Number of Bedrooms 6
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

(X) Crawl Space Foundation?
(X) 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:

(X) New Well ( ) 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 (X) Modified Conventional ( ) Other_____

8. Please Answer The Following ( ) Yes (X) No Does the site contain any jurisdictional wetlands?
To The Best of Your Ability: ( ) Yes (X) No Is any non-domestic sewage (i.e. industry) 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.

9. Signature: _____ 6/5/2017

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

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION:*

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…**

SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site

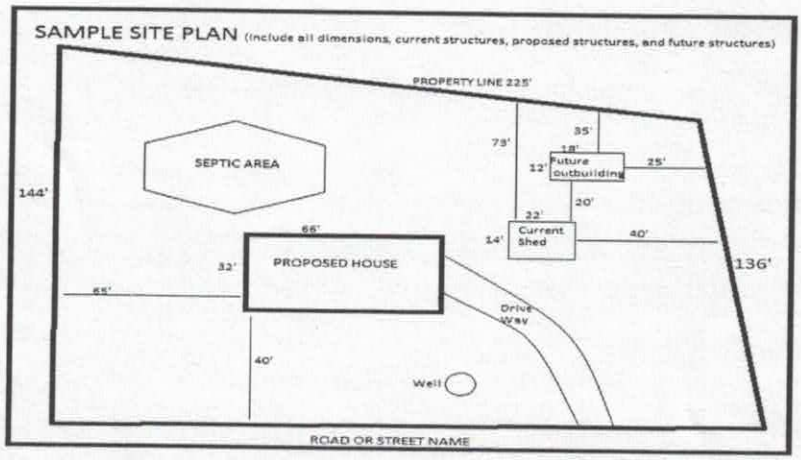
_____ Front and side setbacks from property line… **_____ Preferred driveway location and configuration, preferred well location…**

_____ 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

See Attached Plan

Floor Plans in Database

Signature: _____

REQUIRED **property owner or owner's legal representative signature.**

4/5/2017

DATE

A Proposed Garage Renovation & Addition For

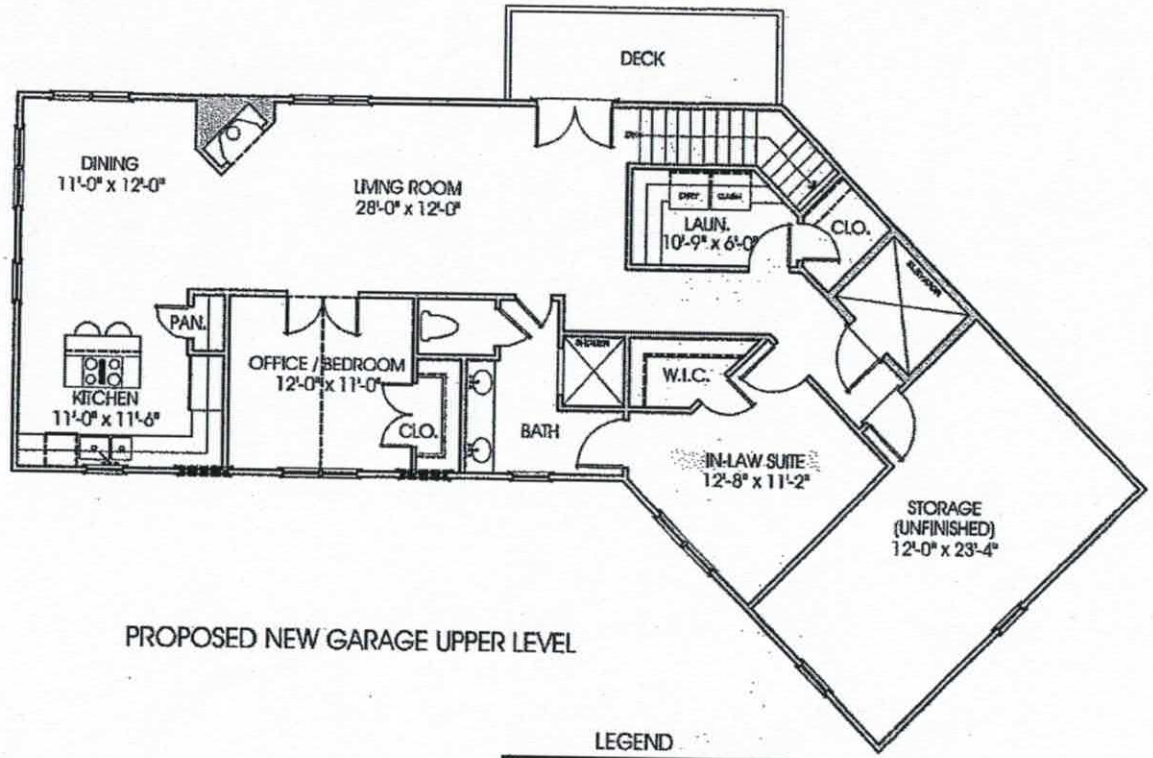
Paul Chickene

2596 Brawley School Rd., Mooresville, NC 28117

Acknowledgement of Plans Submittal ONLY!

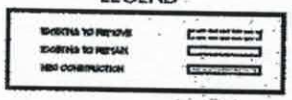
Date 3/16/2016

Date 3/21/16



PROPOSED NEW GARAGE UPPER LEVEL

LEGEND



NEW SQUARE FOOTAGE

Ratliff Residential DESIGNS
704.631.6031
www.ratliffresidentialdesigns.com

A Proposed Garage Renovation & Addition For

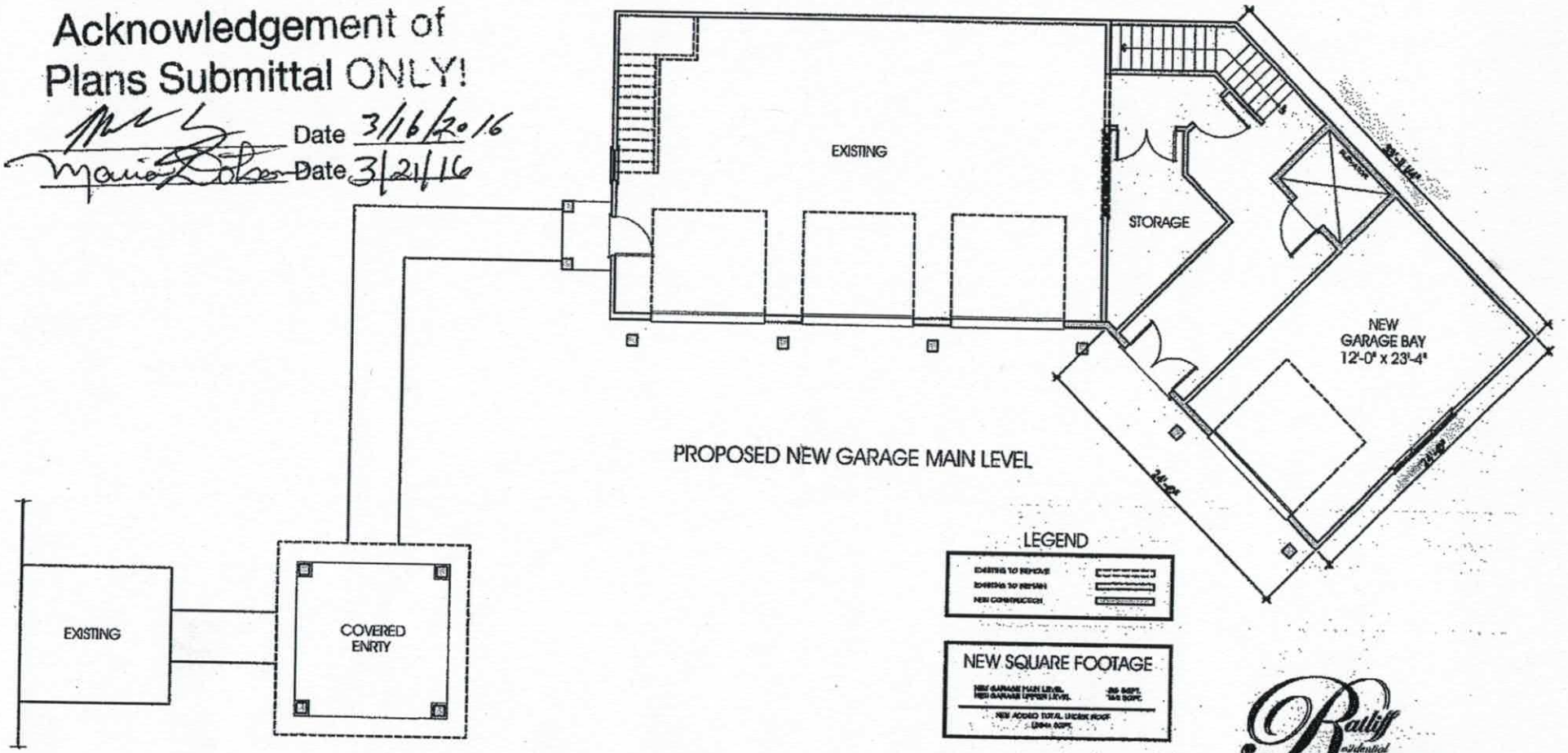
Paul Chickene

2596 Brawley School Rd., Mooresville, NC 28117

Acknowledgement of
Plans Submittal ONLY!

Date 3/16/2016

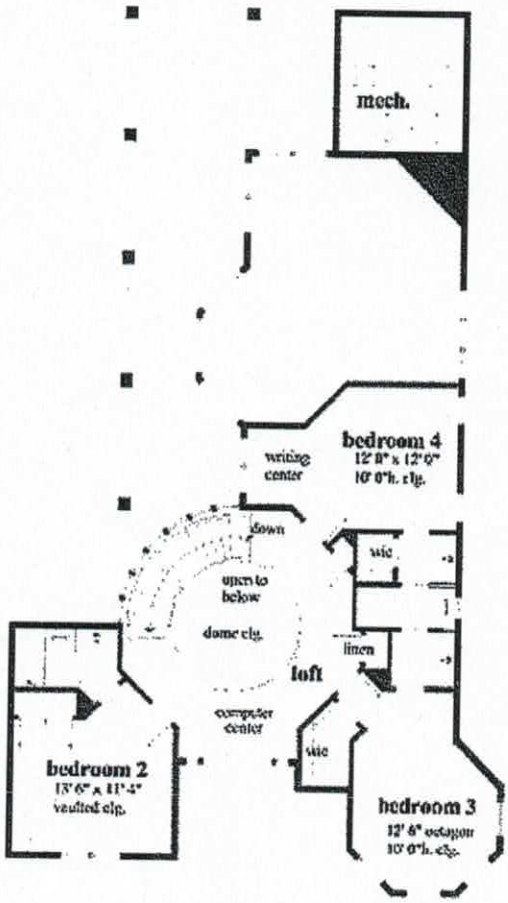
Date 3/21/16



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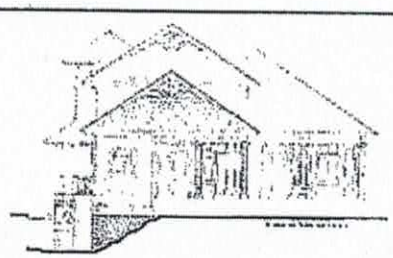
Acknowledgement Of Plans Submitted ONLY!

Date 2/23/06

Craig W. Matthews Date 2/23/06

Exterior Images Click on image to enlarge



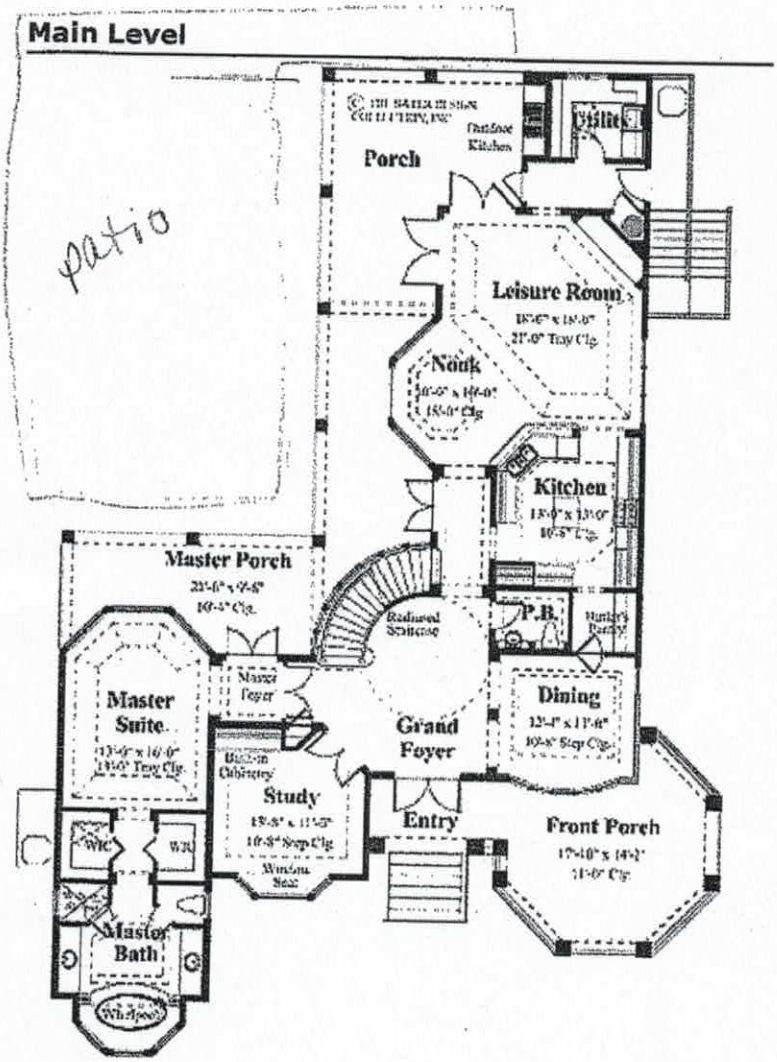


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Additional Plan Views

Main Level



ADVERTISEMENT

Second Level

will be mirror image

Acknowledgement Of
Plans Submittal ONLY!
Date 2/23/06
Date 2/23/06