[redacted]ELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 212842

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

PIN # 4629727242

APPLICANT: Cliff Richardson APPLICANT ADDRESS: 840 Jessica Lee Dr Westminster MD 21157

SITE ADDRESS: 121 Butternut Rd Troutman NC 28166 PHONE: 410-857-4855 ALT. PHONE: N/A

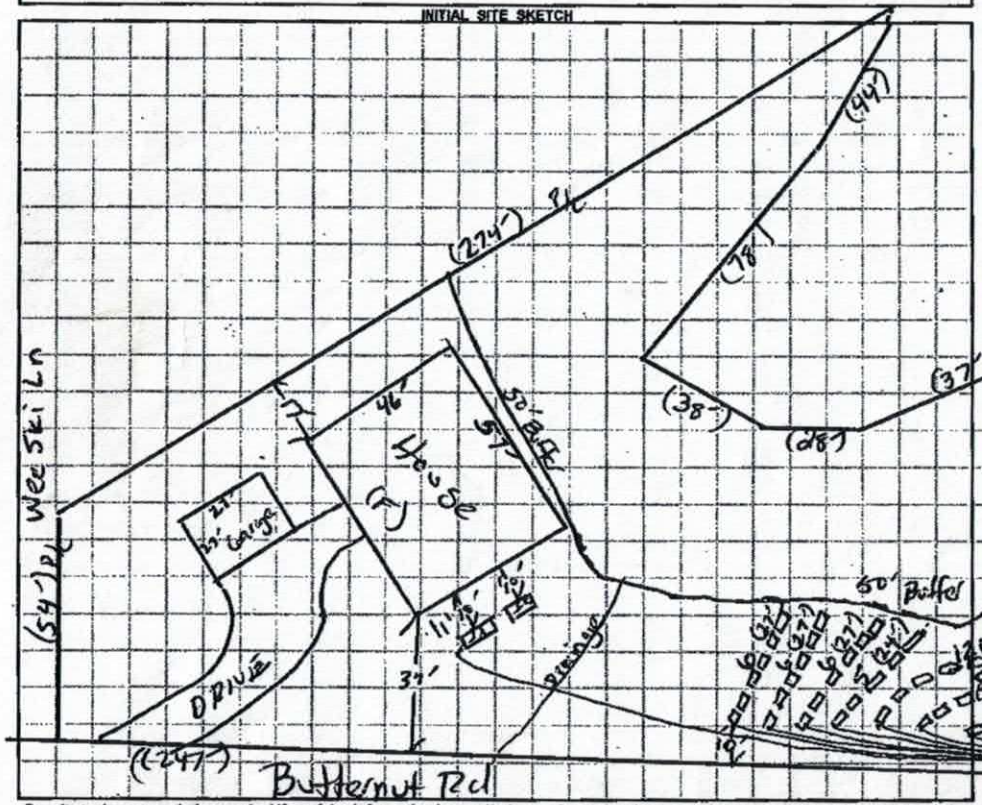
SITE DIRECTIONS: 21 N T/R Wagner turns to Perth T/R State Park Rd T/L Morrison Farm Rd T/L Butternut Lot on Left

SUBDIVISION: CL&T SECTION: 17 LOT # 3119 LOT AREA: 0.699 ac DESIGN FLOW: 360 L.T.A.R.: 0.275

Septic Tank	1000	(gal)	STB	1180	Date	6/13/18	[X] New System	[ ] Repair	[ ] Expansion	System Type: I II III [IV] V VI	[X] Residence	No. Bedrooms	3	Water Supply	
Pump Tank	1000	(gal)	PT	319	Date	7/3/18	System Description:	50% LP Panel			[ ] Business	No. Persons	6	[X] Private	
Pump Make	Zoeller	Model	511 HH		Serial #		Repair System Description:	15A NCAC 18A 1945 Repair Exempt			[ ] Other	No. Employees		[ ] Public	
# Nitrification Fields	1	# Lines	8		Linear Ft:	220'	Maintenance Agreement Required:	[X] YES	[ ] NO		[ ] Slab	[X] Crawl Space		[ ] Community	
Trench Width	24"	Max. Trench Bottom Depth	36"		Gravel Depth	N/A		[ ] GRAVITY	[X] PRESSURE		[ ] Basement w/plumbing			[ ] Basement w/o plumbing	

Comments / Conditions: Maintain 5' off Property line with any part of STS. Install 50% reduction on Contour.

INITIAL SITE SKETCH



AS BUILT SKETCH

1" = 50'

*15A NCAC 18A 1951 (C)(3) minimum horizontal distance shall not be less than 5 feet

* Drainage must be improved and updated to maintain water away from STS. must be 5'5" from any part of STS.

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: 2/12/16 Installed by: Leatherman's Septic Tank

IMPROVEMENT PERMIT by: Date: 12/23/15 OPERATION PERMIT by: Tom Rhuck Date: 10/25/18

AUTHORIZATION TO CONSTRUCT by: Date: 01/13/16 Existing System Inspected by: Date:

Health Dept. Copy - WHITE Applicant (Final Approval) - YELLOW Applicant (Conditional Approval) - PINK

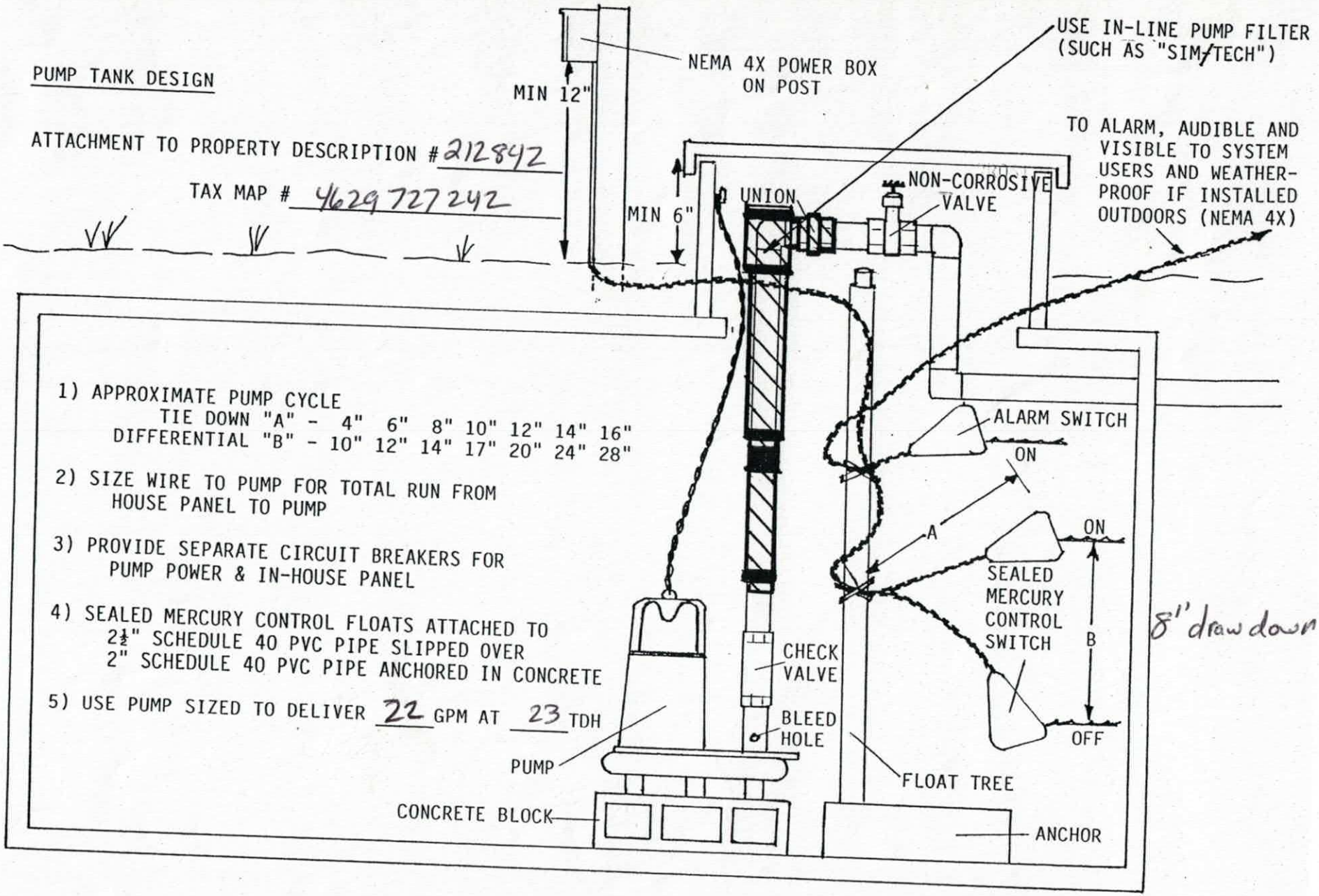
	Date	Initials
Drain Lines Checked	9/6/18	CC
Tanks Checked	9/6/18	CC
Pressure Manifold or Valve Box Checked	9/6/18	CC
Pressure Head Set	9/6/18	CC
Electrical Checked	10/23/18	~~CC~~
Floats Set	↓	↓
Alarm Checked		
Maintenance Contract Y / N		

Expired!

PUMP TANK DESIGN

ATTACHMENT TO PROPERTY DESCRIPTION # 212842

TAX MAP # 4629 727 242



1) APPROXIMATE PUMP CYCLE
   TIE DOWN "A" - 4" 6" 8" 10" 12" 14" 16"
   DIFFERENTIAL "B" - 10" 12" 14" 17" 20" 24" 28"

2) SIZE WIRE TO PUMP FOR TOTAL RUN FROM HOUSE PANEL TO PUMP

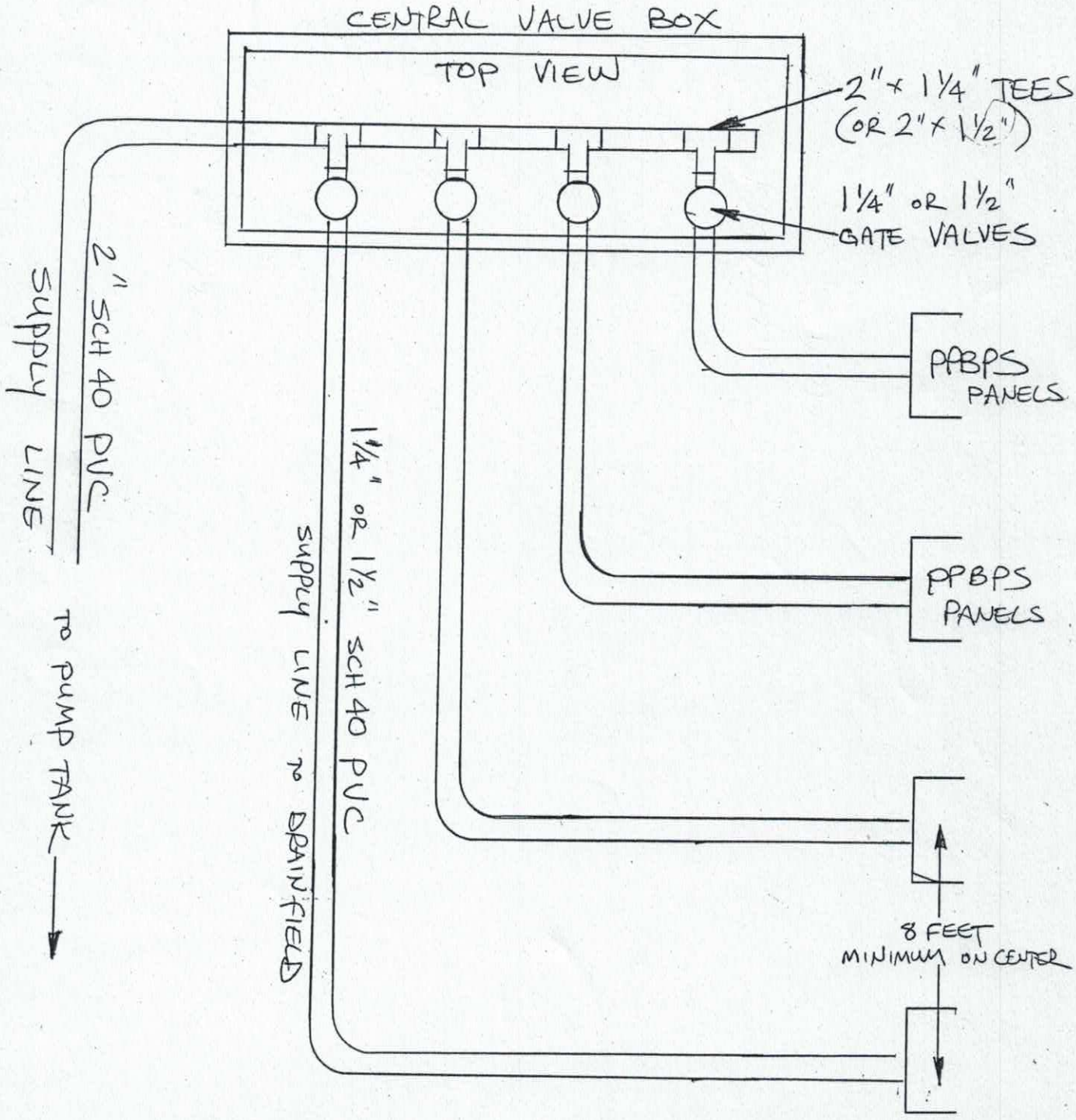
3) PROVIDE SEPARATE CIRCUIT BREAKERS FOR PUMP POWER & IN-HOUSE PANEL

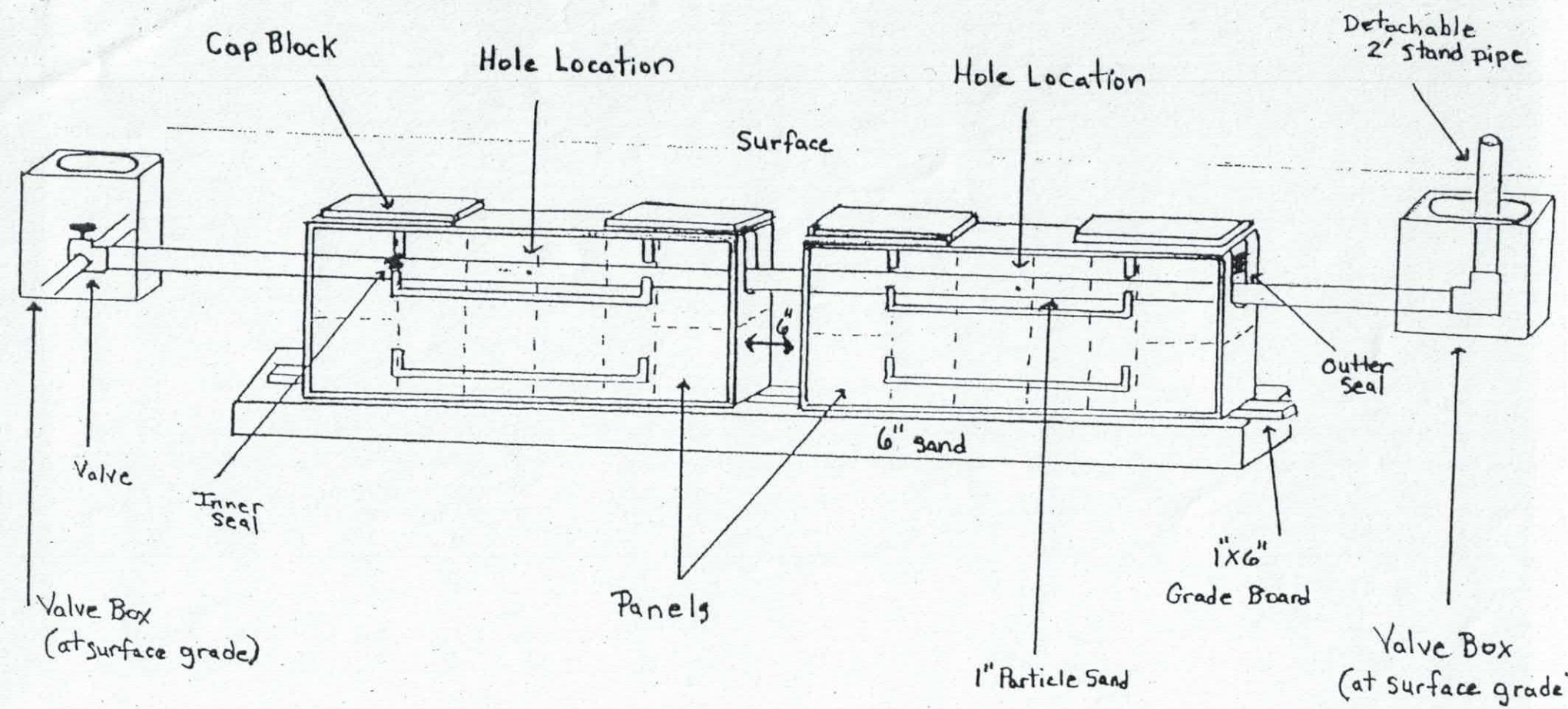
4) SEALED MERCURY CONTROL FLOATS ATTACHED TO 2½" SCHEDULE 40 PVC PIPE SLIPPED OVER 2" SCHEDULE 40 PVC PIPE ANCHORED IN CONCRETE

5) USE PUMP SIZED TO DELIVER 22 GPM AT 23 TDH

8" draw down

CENTRAL VALVE BOX EXAMPLE SKETCH





Pressure Dosed PPBPS

of panels 49.
Size holes 5/32. 1 hole per panel.
Approximate amount of sand needed 35 Tons.
100lbs. of partical sand per 8 panels.
Sidewalls raked and limed.
GPM 22.
TDH 23.

Verify TDH @ time of installation.

Comments

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1
PROPERTY ID #: 4629772241
COUNTY: Iredell

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

OWNER: Cliff Richardson
ADDRESS: 121 Butternut Rd
APPLICATION DATE
DATE EVALUATED: 10/05/15
PROPOSED FACILITY: 3 BD
PROPOSED DESIGN FLOW (.1949): 360
PROPERTY SIZE:
LOCATION OF SITE: State Park to Morrison farm to Butternut
PROPERTY RECORDED:
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other N/A
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	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	NS 17%	0-24	ABK C	fi SE	PS	PS			PS .275
		24-48	WABk BC	fi/k SE					
			manganesse 0"-24"						
2	NS 17%	0-24	ABKC	fi SE	PS	PS			PS .275
		24-48	WABk BC	fi/k SE					
			few yellow browns 20"						
			mica						
3	HS 5%	0-30	ABKC	fi SE	few yellow browns 30"-48"	PS			PS .275
		30-48	WABkBC	fi/k SE					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	
System Type(s)	IV	
Site LTAR	.275	

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

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
					MOIST	WET
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05	VFR (Very Friable) FR (Friable) FI (Firm) VFI (Very Firm v. Very Sticky) EFI (Extremely Firm)	NS (Non-sticky) SS (Slightly Sticky) S (Sticky) VS (Very Sticky) NP (Non-plastic) SP (Slightly Plastic) P (Plastic) VP (Very Plastic)
		O (Organic)	None	None		

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

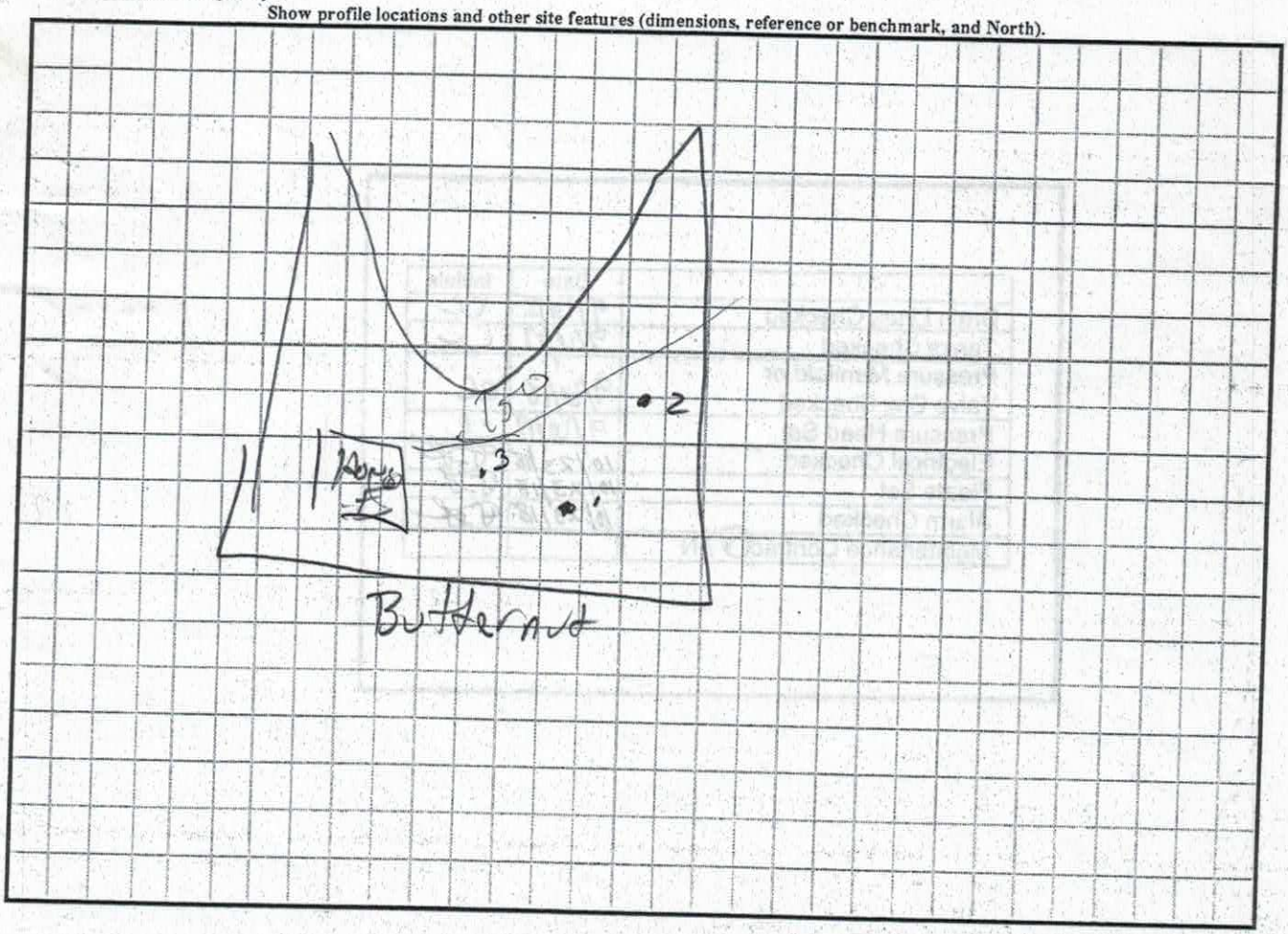
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



21284 2

FILE COPY

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

Application For:

(X) 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: (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:

Applicant Name: Cliff Richardson Address: 840 Jessica Leg Dr, Westminster MD 21157 Phone: 410.857.4855

Owner Name: SAME Address: SAME Phone: SAME

Property Information:

Street Address: 121 Butternut Rd, Troutman NC 28166

Subdivision Name: _____ Section/Phase: _____ Lot Number: _____

Driving Directions: _____

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

(X) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

Maximum Number of Bedrooms: 4 3 OR
Maximum Number of Occupants: _____
( ) Swimming Pool
( ) Other Addition/Structure: _____

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

Non-Residential Site Development:

Type of Business: _____
Square Footage of Building: _____
Maximum Number of Employee: _____
Maximum Number of Seats/Beds/Other: _____

Water Supply:

(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: _____

(X) No Preference ( ) 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: Cliff Richardson 8/12/15

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

DUKE ENERGY® CAROLINAS

DUKE ENERGY® PROGRESS

Distribution Rights-of-Way Guidelines/Restrictions For North Carolina & South Carolina

Duke Energy's goal is to provide safe, reliable and economical electrical service to all customers. Keeping electricity reliable requires that Duke Energy have unobstructed access for maintaining power lines, facilities and rights-of-way. The following list of right-of-way use guidelines has been developed to provide property owners with a guide for the use of Duke Energy's distribution line rights of way. Please contact a Duke Energy right-of-way representative concerning approval for any proposed plans or special uses that would deviate from the restrictions as outlined below.

Duke Energy generally maintains a thirty (30) foot wide easement area for overhead distribution electric lines, fifteen (15) feet lying on each side of the centerline of the electric line. Duke Energy generally maintains a ten (10) foot wide easement area for underground distribution electric lines, five (5) feet lying on each side of the centerline of the electric line and ten (10) feet around all enclosures.

Structures are not permitted within Duke Energy's distribution right-of-way. The term "structure" includes, but is not limited to, the following: buildings, sheds, underground or overhead storage facilities, swimming pools, mobile homes, trailers, satellite signal receiver systems and equipment, billboards, signs, dumpsters, street or area lights (unless approved by Duke Energy), air strips, hunting stands, etc.

Storage and/or Dumping of garbage, trash, rubble, flammable material, building material, junk or inoperable vehicles, etc – is not permitted within Duke Energy distribution rights-of-way.

Immoveable Ground Facilities – "Immoveable ground facilities" include, but are not limited to, the following: streets, roads, driveways, water and sewer lines, manholes, fire hydrants or other utility pedestals. **Septic tanks and/or related drain fields, absorption pits, wells, burial grounds, and underground vaults shall not be allowed within Duke Energy's rights of way.**

Some immoveable ground facilities may be allowed within Duke Energy distribution rights of way, with prior written approval from Duke Energy in its discretion. Immoveable ground facilities are more likely to be approved by Duke Energy if they meet all the following criteria:

a. The facilities must cross the centerline of Duke Energy's distribution line at an angle of forty-five (45) degrees or greater and the edge of the item should be at least fifteen (15) feet from any Duke Energy structure or anchor.
b. All underground facilities must be capable of bearing the weight of Duke Energy's maintenance vehicles.
c. Manholes must be thirty (30) or more inches above grade, unless in paved or graveled areas.
d. Fire hydrants, utility pedestals, or any other above ground facilities shall not be allowed directly under conductors.

Parking Lots may be constructed on Duke Energy rights of way with prior written approval from Duke Energy, in its discretion. Parking lots are more likely to be approved by Duke Energy if they meet all the following criteria:

a. A barrier adequate to protect the pole and/or anchor shall be erected by the party constructing the parking lot in such a manner as to prevent parking within five (5) feet of any pole or anchor.
b. Grading within the right of way shall first be approved by Duke Energy.
c. Customer lighting facilities within the right of way shall first be approved by Duke Energy.
d. Signs and other attachments to any Duke Energy structure are prohibited.

Grading will not be allowed within the right of way without prior written approval from Duke Energy, in its discretion. Access to Duke Energy facilities must be maintained at all times. Any grading that allows water to pond or to cause erosion around any pole or anchor is prohibited. Grading within fifteen (15) feet of any Duke Energy structure or anchor shall not be allowed. Slopes shall not exceed a one (1) foot rise/fall in elevation over three (3) feet horizontal distance (1:3 slope).

Fences shall not exceed eight (8) feet in height. Fences shall not be attached to Duke Energy poles. If Duke Energy's ability to travel along the right of way is impeded, property owner must install a twelve (12) foot gate(s). If the fence does impede access to Duke Energy, that section of fence will be removed and it will be the owner's responsibility to re-install.

Lakes, ponds, erosion control facilities and dams may be allowed within Duke Energy distribution right of way with prior written approval from Duke Energy, in its discretion, provided that they do not interfere with Duke Energy's facilities, access and/or maintenance requirements.

Trees, shrubs, hedges, low-growing evergreens, flowers, grasses, or gardens planted within Duke Energy rights of way shall be of a variety that do not exceed a maximum height of twelve (12) feet at maturity and may not interfere with Duke Energy's facilities, access and/or maintenance requirements.

No items shall be allowed on Duke Energy rights of way that violate the National Electrical Safety Code. No burning activities are allowed within Duke Energy rights of way. No agricultural irrigation or waste spraying facilities can be located within Duke Energy rights of way.

For additional information or clarification, please contact a Duke Energy right-of-way representative at 1-800-777-9898.

IREDELL COUNTY HEALTH DEPARTMENT

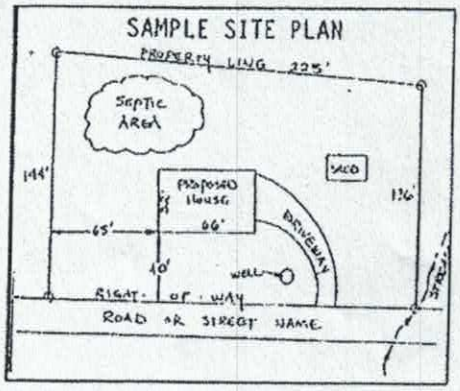
ENVIRONMENTAL HEALTH DIVISION

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:

- (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 and well location
- (X) Area you prefer your septic system to be placed
- (X) North arrow, or other sufficient indicator of direction



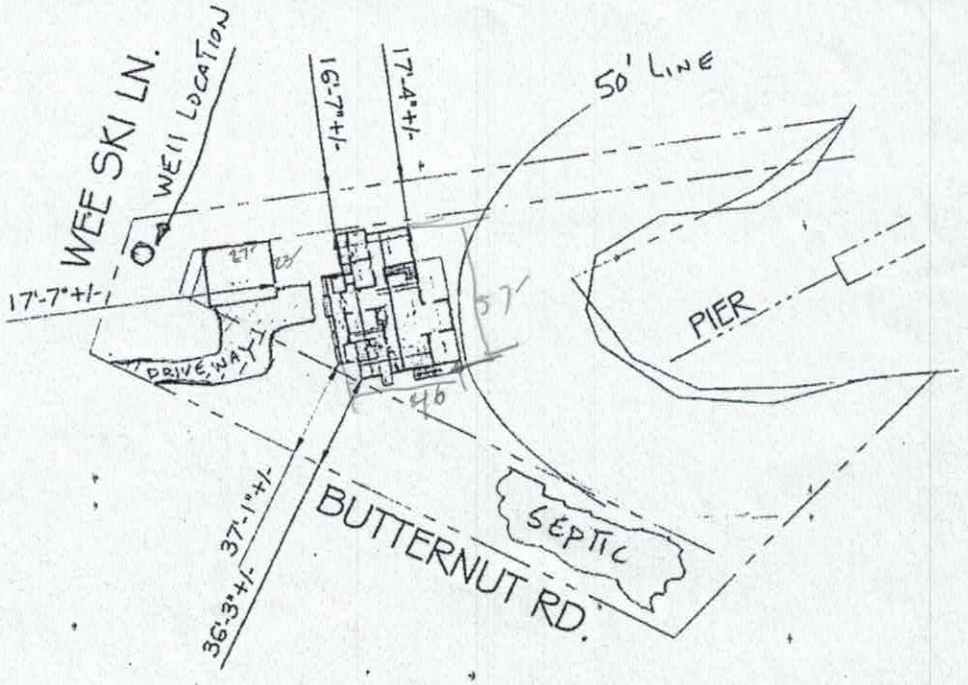
Circle N/A on the following if appropriate:

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 DOCUMENTS



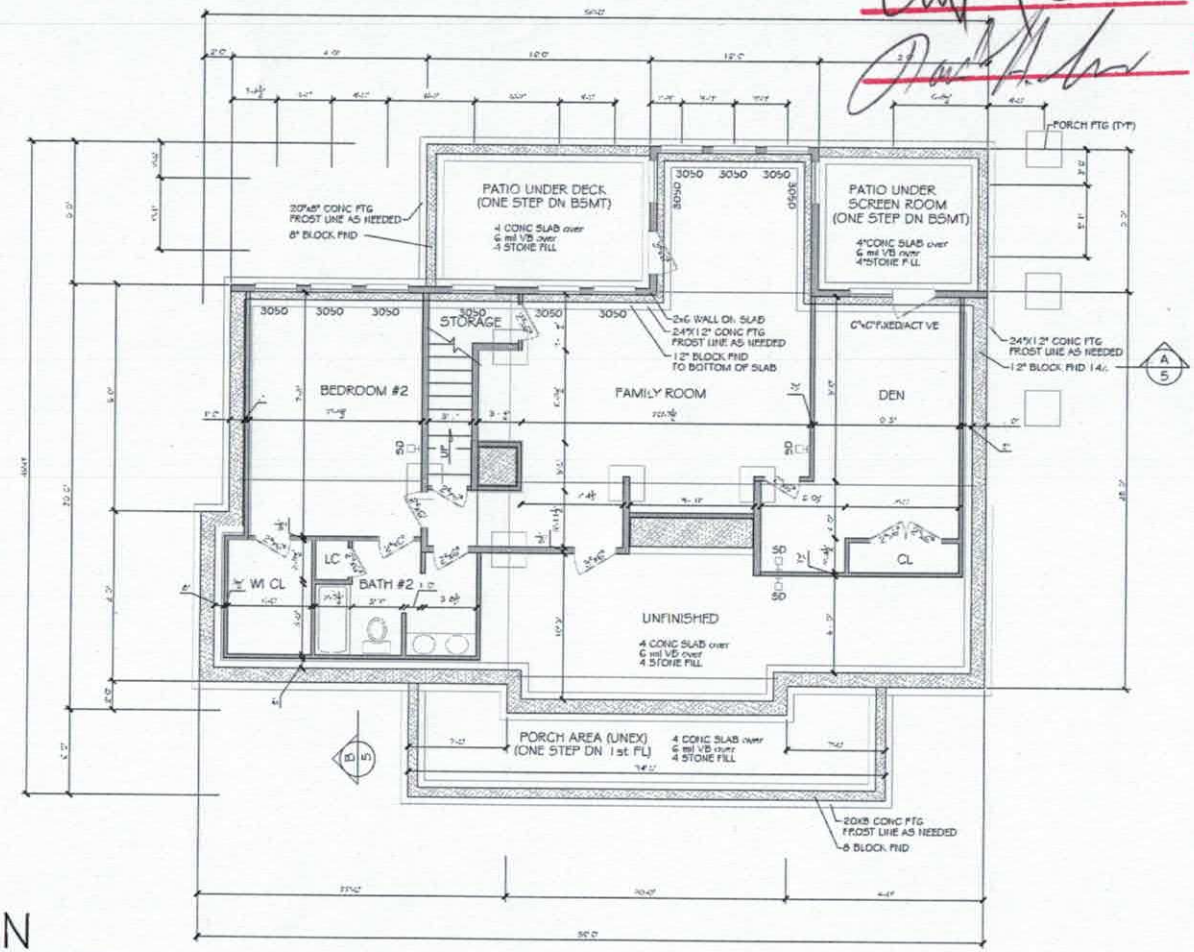
Signature: Cliff Rich

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

8/12/15

DATE

Acknowledgement Of
Plans Submittal ONLY
Date 2/12/16
Date 01/13/16



FOUNDATION PLAN

Scale: 1/4"= 1'-0"

REVISED:
1/14/2015
WINDOW
STAIR DOOR
1/8/2016
REMOVED DOOR
GEAR REMOVED

RETREAT - RICHARDSON

FOUNDATION PLAN

DATE
1/5/2015

DRAWING NO.
4

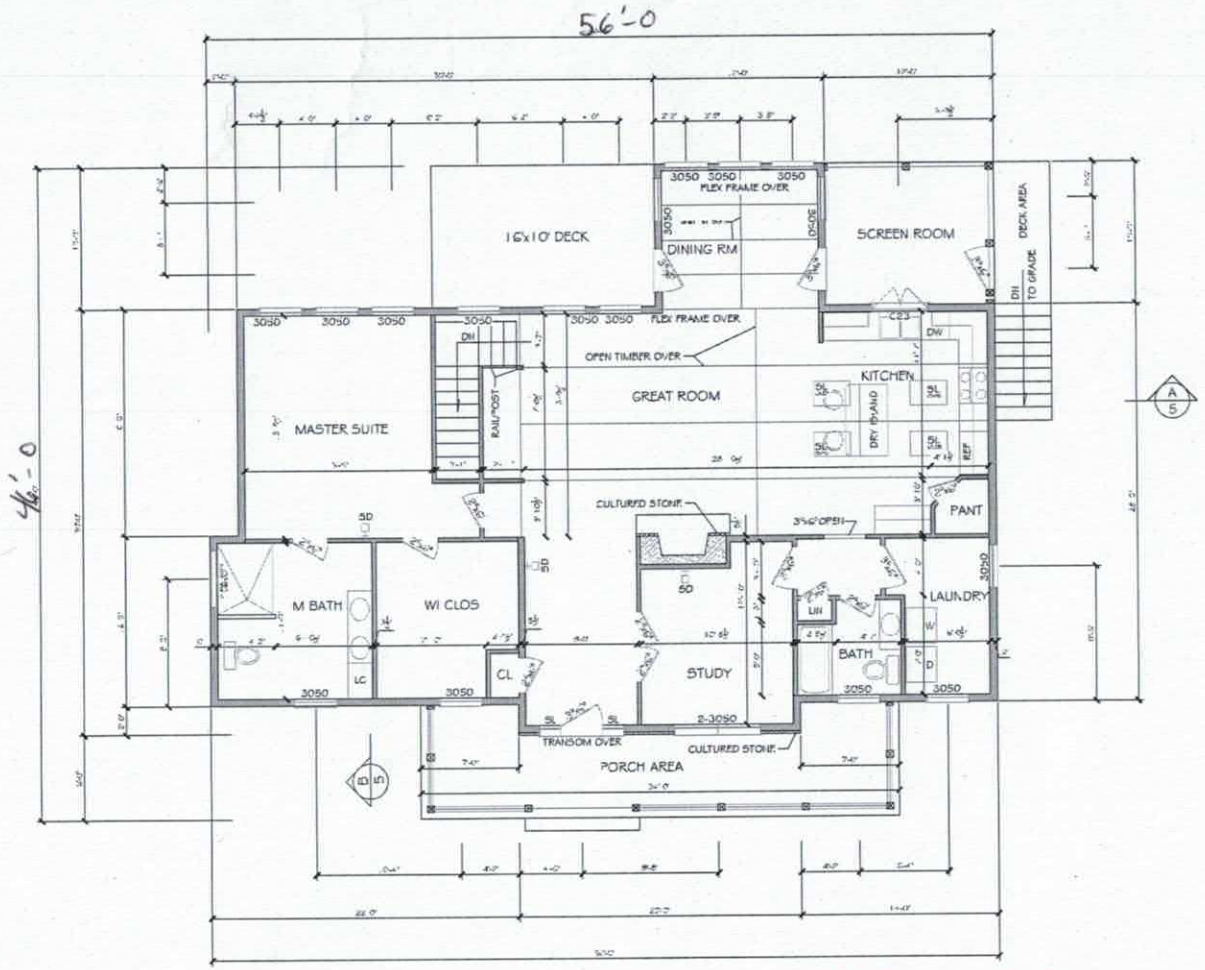
REVISED:
1/14/2015
CEL DINING ROOM
RAIL WINDOWS
PANT.

2/17/2015 ADDED
SL.

1/6/2016 M.BATH
W.I. CLOS
LAUNDRY DR TO
WIN

RETREAT - RICHARDSON

FLOOR PLAN



FLOOR PLAN

Scale: 1/4"= 1'-0"

Acknowledgement Of
Plans Submittal ONLY!

Date 2/12/16

Date 01/13/16

DATE 1/5/2015

DRAWING NO. 3

IREDELL COUNTY

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

APPLICATION NUMBER
212842
Issue Date: 09/08/2015

FILE COPY

ZONING PERMIT

Open Space

Parcel Number	Street Address	Jurisdiction
4629727242.000	121 BUTTERNUT ROAD, TROUTMAN, NC	IREDELL COUNTY

Owner Information	Applicant Information
Owner: RICHARDSON CLIFFORD+CAROL	Applicant: RICHARDSON CLIFFORD+CA
Address: 840 JESSICA LEE DR TROUTMAN, MD 21157	Address: 840 JESSICA LEE DR TROUTMAN, MD 21157
Phone:	Phone:

Use Requested	Zone Code
NEW SFD / REPACING OLD PERMIT# 131133	R20

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
.699	35.00	50.00	25.00	15.00	CACL	AE

Remarks:

E-MAILED TO EH
1:45 9/8/15 MRB

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: See Attached Date: See Attached

Permit Number	48603	TOTAL FEES:	$ 77.25