IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 118517

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

PIN # 4648 32 7322

APPLICANT: DANA GINGRAS APPLICANT ADDRESS: ~~PO BOX 610 CORNELIUS~~ 132 CEDAR WOODS LN, MOORESVILLE, NC

SITE ADDRESS: 132 CEDAR WOODS DR MOORESVILLE, NC PHONE: ALT. PHONE:

SITE DIRECTIONS: ~~BSB~~ - BLUEFIELD RD - TL BIG INDIAN - TL CEDAR WOODS - ON RT - #132

SUBDIVISION: CEDAR WOODS SECTION: — LOT # 12 LOT AREA: .75AC DESIGN FLOW: 480 L.T.A.R.: .3

Septic Tank: EXISTING 1000 (gal) STB Date

Pump Tank: EXISTING 1000 (gal) PT Date

Pump Make: Model: Serial #:

Nitrification Fields: 1 # Lines: 5 Linear Ft: 300

Trench Width: 24" Max. Trench Bottom Depth: 36" Gravel Depth: N/A

☑ New System ☐ Repair ☐ Expansion System Type: I II III (IV) V VI

System Description: LP PRBPS

Repair System Description: SAME

Maintenance Agreement Required: ☑ YES ☐ NO

☐ GRAVITY ☑ PRESSURE

☑ Residence No. Bedrooms: 4

☐ Business No. Persons: 8

☐ Other No. Employees:

☐ Slab ☑ Crawl Space

☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☑ Private ☐ Public ☐ Community

Comments / Conditions:

Upgrade to 4 Bedroom
New line 3/16" hole drilled
10/1/13 2# pressure set & new line checked

INITIAL SITE SKETCH

SEE S&ME's PLAN.

AS BUILT SKETCH

Danaagingras@windstream.net

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: Dana Gingras Date: 9-26-13 Installed by: R&R RS

IMPROVEMENT PERMIT by: C.S. REHS Date: 9/25/13 OPERATION PERMIT by: Mark Hudson Date: 10/1/13

AUTHORIZATION TO CONSTRUCT by: C.S. REHS Date: 9/25/13 Existing System Inspected by: Date:

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

---- EXISTING + EXPANSION

----- PROPOSED 4 BD. REMA



ts, and other public records. Users of these maps are hereby notified that the information provided herein should be verified. Iredell County assumes no legal responsibilities for any of the information
n Carolina State Plane Coordinate System from the 1983 North American Datum. The delinquent real property tax overlay is updated monthly. The information presented is not intended to be used or re

GINGAS 62 12 CEDAR WOODS

SAME PROJECT IS
* SITE PLAN MUST A

Paid $850.00 9-18-13 PM

S&ME

September 17, 2013

Dana Gingras
132 Cedar Woods Lane
Mooresville, North Carolina 28117

Reference: **Technical Assistance with Fast Track Septic Permitting**
Proposed System Expansion from 3 to 4 Bedrooms
Lot 12 Cedar Woods Subdivision
Iredell County, North Carolina
S&ME, Inc. Project No. 1584-13-099

Dear Mr. Gingras:

S&ME, Inc (S&ME) has provided technical assistance to obtain a possible four bedroom septic Improvement Permit expansion from the Iredell County Health Department (ICHD). The technical assistance was performed in general accordance with S&ME Proposal No. 1584-13-P229 dated September 3, 2013.

Attached is the Application for the Septic Improvement Permit, the Environmental Health Requirements form, and the ICHD Fast Track requirements presented to the ICHD on your behalf. We understand the lot has an existing house, detached garage/shop, and well. Based on the Iredell County Operation Permit, the existing three bedroom T&J Panel system was installed in 2005, after the new house was constructed. We understand that you discovered the system was only permitted for three bedrooms after your realtor started compiling information to list the house for sale. You stated that Anaheim Homes (listed as the owner/contractor on the 2005 permit) built the 4 bedroom home and you purchased the home as 4 bedrooms.

Mr. Paul Penninger with S&ME visited the lot on September 6 and 17, 2013 to flag the existing system, place hand auger borings on the lot, and flag the possible proposed system expansion. Attached are 10 profile descriptions from hand auger borings placed on the lot and a site plan showing the existing system and proposed expansion areas.

Approximately 24 to 36 inches of fill material was observed between the existing system and the street in the eroded area shown on the ICHD 2005 permit. This area could potentially be used with a .1948(d) modified sand lined trench T&J Panel system, but is being excluded from system use in this proposal. Only about a foot of disturbed soil was observed between the house and the existing system at the eroded area shown on the 2005 ICHD permit. It is possible this was only a minor eroded area that was removed as the lot was developed with the existing house. Six hand auger borings were placed between the house and existing system in an attempt to locate any fill material in the eroded area shown on the 2005 permit. In discussing the proposed system expansion with Mr. Brady Freeman of the ICHD, Mr. Freeman indicated that backhoe pits would be required by the ICHD for the lot review to

FORTY YEARS OF ENGINEERING INTEGRITY

verify the soil suitability. Saprolite material was also observed between the house and existing system that will require a backhoe pit evaluation.

We are proposing to add 80 feet of Low Pressure Distribution T&J Panel Block to the existing system to expand the system to four bedrooms. This is one bedroom of flow at a Long Term Acceptance Rate (LTAR) of 0.25 gpd/ft^2. The LTAR in the 2005 permit was 0.25 to 0.3 gpd/ft^2. Three Hundred and twenty feet of possible T&J Panel repair area is shown for the expanded system. The installer will have to make the field determination of whether the existing pump, valve box, and supply line can be used with the system expansion or if these system components will have to be replaced. There is an existing irrigation system over the drainfield area. This irrigation system violates the 10 foot water line setback from the septic system and the ICHD could require the irrigation system to be relocated.

S&ME appreciates the opportunity to provide these services to you. The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist you and the ICHD with the Fast Track site evaluation. The attached plan is not intended to be a Professional Engineer plan. The ICHD must approve each lot and only the ICHD can issue these permits. The ICHD should verify all soils and system specifications, required setbacks, and whether a professional engineer plan is required before permitting and/or septic system installation. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance. The soil profile descriptions are only valid for the described hand auger borings.

If you have any questions or require additional information please contact us at your convenience.

Sincerely,

S&ME, Inc.

Paul G. Penninger, L.S.S.
Senior Soil Scientist

Rob Willcox, L.S.S.
Natural Resources Services Leader

Attachments:

1. ICHD Improvement Permit Application, and Health Department Requirements
2. Site Plan and System Specifications
3. Soil Profile Descriptions
4. 2005 ICHD Operation Permit, Plat Map, Pump Curve

Copy: ICHD

S:\1584\PROJECTS MASTER\Projects 2013\1584-13-099 Dana Gingras - Lot 12 Cedar Woods\1584-13-099 Cedar Woods Summary Letter.doc

Lot 12 Cedar Woods System Expansion 9-17-13

Number of Bedrooms	Expand from 3 to 4
Basement or Crawl	**Crawl/Slab Garage**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.25-0.3 on existing 3 bdr permit
Primary System Type	**LP PPBPS**
No. Lines	4 existing , 1 proposed for expansion
Total Linear Feet	220 existing, 80 proposed
Trench Width	2'
Trench Spacing	8' min
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	existing - approx. 50 ft.
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	39 gpm (3/16 holes at 2 ft head)
Elevation head	Approx. 11'
Pressure head	2
Friction head	approx.2'
20% Contingency	3'
Total Head	18'
Pump Requirements	39 gpm @ 18' of head **To be verified by installer and ICHD.
Maximum Dosing Volume	237 gallons max
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 6 min.
Check Valve	
Siphon Break hole	yes
Repair System	**LP PPBPS**
Total Linear Feet	320 shown
Repair LTAR	.025-0.3+

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**
**** Attached pump curve shows existing Liberty 1/2 hp pump may have to be replaced.**

Lot 12 Cedar Woods Expansion Fast Track Summary of Primary Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	Existing	blue	LPPPBPS	55 ft per permit	3.4	existing	*12?	1 per panel	3/16
2	Existing	white	LPPPBPS	55 ft per permit	4.0	existing	12?	1 per panel	3/16
3	Existing	orange	LPPPBPS	55 ft per permit	4.7	existing	12?	1 per panel	3/16
4	Existing	yellow	LPPPBPS	55 ft per permit	4.9	existing	12?	1 per panel	3/16
5	Expansion	orange	LPPPBPS	80	7.1	18	18	1 per panel	3/16
						Total: 66	Total:66 (1 in each panel turned up)		
				Total System: 300'					

Total Repair: 320' (see site plan for location and lengths)

Tank		1000 gal existing	
Pump Tank		1000 gal. existing	6.2
House		existing	

Note: **Installer and ICHD shall verify all line locations, tank locations, and elevations prior to installation.**
System is to be installed according to any other ICHD requirements or policies.
These specifications are to satisfy the ICHD Fast Track LSS checklist and are not intended to represent an Engineered System Design.
Use trench depth on ICHD IP.
Contact Certified installer for expansion system start-up.
*Existing OP does not state number of panels installed in 2005.

S&ME, INC.
SITE/SOIL EVALUATION

Project No. 1584-13-099 **Phone No.** **Location** Lot 12 Cedar Woods **Pin** **County:** **Date:** 9-6-13 **Property Size**

Proposed Facility: 3 BR 4 BA House **Water Supply:** On-Site Well ☒ Community ☐ Public ☐ **Evaluation:** Auger Boring ☒ Pit ☐ Cut ☐

Described By: Rep - by LCHD must be present **Weather:** Hot, Sunny **Antecedent Moisture** moist **Surface Water:**

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4
Landscape Position %	L	L	L	
Horizon Depth I	0-5	0-24	0-27	0-15
Color Munsell	br	m/br	+br	
Texture	cl	c-cl	f-th	fsl
Structure	wsbk	wsbk		
Consistence	fr/fi	fr ss/ps	s	
			s.p/s	
Boundary				
Horizon Depth II	5-17 BC	24-47	27-30 BA	15-36
Color – Munsell	y.br-m	m	BA	m
Texture	cl	c		c
Mottles	f sdp	mf sdk		mf sdk
Structure	wsbk			f fabk
Consistence	fr ss/ps	fr p/sp		wsbk
				fr s/p
				f sp
Boundary				
Horizon Depth III	17-84	47-84	30-56	
Color – Munsell	m br	m	m	
Texture	l-cl	cl	c	36-72 BR
Mottles	sdc	f sdp/pl	f sdp/fd	d-m
Structure	mabk	wsbk	wsbk/mas	c
Consistence	fr sp	fr sc/sp	fi s/p - s/sp	m sp
Boundary			72	
Horizon Depth IV			56-84+ sc	fr
Color – Munsell			m	
Texture			cl	
Mottles			f sdc	
Structure			wabk	
Consistence				
			72-84	
			m-c	
Boundary			f sdp	
Soil Wetness			f cl	
Restrictive Horizon			72"	
Saprolite	17"			
LTAR	.4	.3 24"		.27
Classification	P4	P3	P3	P3
			.25-.3	
				15

27+

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
FS	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Concave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	Loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sbk	subangular blocky
abk	angular blocky
pl	platy
pr	prismatic

S&ME, INC.
SITE/SOIL EVALUATION

Project No. 1584-13-099 **Phone No.** _____ **Date:** 9-16-13
Location Lot 12 Cedar Lane **Pin** _____ **County:** _____ **Property Size** _____

Proposed Facility: _____ **Water Supply:** On-Site Well ☒ **Evaluation:** Auger Boring ☒
must be approved Community ☐ Pit ☐
Described By: RGP - by ICHD Public ☐ Cut ☐
Weather: Hot **Antecedent Moisture** moist **Surface Water:** —

FACTORS	PROFILE A	PROFILE B	PROFILE C	PROFILE D
Landscape Position %	L	0-L yard	yard L	
Horizon Depth I	0-7	0-12	0-9	0-15
Color Munsell	mbr			yel br
Texture	C/cl	msl A S. C	same	C/ G
Structure	V vf SBk			Amx
Consistence	fr SS/SC	fr/l		vfSBk
	A/B mf			
Boundary				
Horizon Depth II	7-48 BC	12-48	7-24 BC	15-48
Color – Munsell	mbr/7	mi	mbr	sl
Texture	cl	L-sl	SCL	SAC
Mottles	c SOP	SOP	CSAP	
Structure	WSBlc	massive	WSBk	WSBk
Consistence	fr SS/SC	fr SS/SC	fr SS/SC	fr SS/SC
Boundary				
Horizon Depth III			24-48	
Color – Munsell			mc	
Texture			L-sl SR	
Mottles				
Structure			WSBk	
Consistence			fr SS/SC	
Boundary				
Horizon Depth IV				
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Soil Wetness				
Restrictive Horizon				
Saprolite		12"	24+	15+
LTAR	3+	3+	3+	3+
Classification	PS	PS	PS	PS

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
S	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Concave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sab	subangular blocky
ab	angular blocky
pl	platy
pr	prismatic

S&ME, INC.
SITE/SOIL EVALUATION

Project No. 1584-13-089 **Phone No.** _____ **Date:** 9-16-15
Location Lot 12 Cedar Walk **Pin** _____ **County:** _____ **Property Size** _____

Proposed Facility: 3 BR, must be Pressured **Water Supply:** On-Site Well ☒ **Evaluation:** Auger Boring ☒
Community ☐ Pit ☐
Described By: RBP by ICHD Public ☐ Cut ☐
Weather: Hot **Antecedent Moisture** moist **Surface Water:** _____

FACTORS	PROFILE E	PROFILE F	PROFILE	PROFILE
Landscape Position %	L 4%			
Horizon Depth I	0-12	0-12		
Color Munsell	mix A/B	mix A/B		
Texture	L-C	C-C		
Structure				
Consistence				
Boundary				
Horizon Depth II	12-32	12-24		
Color – Munsell	M	AK mx		
Texture	C	C		
Mottles		Com co Mod		
Structure	m f sbk	m f sbk		
Consistence	F i Sl p	F i p		
Boundary				
Horizon Depth III		24-48		
Color – Munsell		M		
Texture		C		
Mottles		Com Dist Lt Sk		
Structure	Hole not	m f sbk		
Consistence	Augered	F i Sl p		
	Past 32"			
	All f i l l			
Boundary	depth			
Horizon Depth IV	determined			
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Soil Wetness				
Restrictive Horizon				
Saprolite				
PTAR	12-32	12-32		
Classification	PS	PS		

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
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P	Flood Plain

TEXTURE

s	sand
ls	loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
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MOIST

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fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sbk	subangular blocky
abk	angular blocky
pl	platy
pr	prismatic

P1) 0-6 - Gravity Sewer
6-28 - PC Air Sewer Force Main
28-5 - Dsafm Force Main

P2 0-10 Force Main
10-20 Force Main
20-42 Force Main

---- EXISTING + EXPANSION TIJ LINES (4.55' EXISTING, 1-80' EXPANSION)
0-20' 4-100'
B-60' B-40'
W-100'

----- PROPOSED 4 Bdrm REMOVAL



e maps prepared for this website are generated from recorded deeds, plats, and other public records. Users of these maps are hereby notified that the information provided herein should be verified. Iredell County assumes no legal responsibilities for any of the information contained on this site. Users are advised that the use of any of this information is at their own risk. All ps on this site were prepared using a 1000ft Grid based upon the North Carolina State Plane Coordinate System from the 1983 North American Datum. The delinquent real property tax overlay is updated monthly. The information presented is not intended to be used or relied upon as official notice of tax liens. For additional information regarding delinquent taxes, contact e Iredell County Tax Collector's Office.

DANA GINEAS Lot 12 CEDAR WOODS SITE PROJECT 1584-13-099 9-13-13
* SITE PLAN MUST ACCOMPANY 9-19-13 REPORT.

IREDELL COUNTY HEALTH DEPARTMENT

Application For Improvement Permit and/or Authorization To Construct, Existing System Inspection

(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: X Improvement Permit X Authorization To Construct ___BOTH ___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:** 132 Cedar Woods Ln

Applicant Name	Mailing Address	Home Phone	Work Phone
Dana Gingras	Mooresville NC 28117	704-664-8044	

Owner Name	Mailing Address	Home Phone	Work Phone
Same			

4. **Property Information:**

Street Address	Subdivision Name	Section/Phase and Lot Number
132 Cedar Woods Ln	Cedar Woods	12

Driving Directions: BSR, TL Williamson Cross 150, TL Big Indian, TL Cedar Woods Ln, Lot on Rt.

****

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

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

Maximum Number of Bedrooms 4
Maximum Number of Occupants 8
If Expansion, Current Number of Bedrooms 3

(X) 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)* PBES

( ) Alternative ( ) Conventional ( ) Innovative (X) Modified Conventional ( ) Other_____ ( ) No Preference

****

8. **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. 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:** _____ 9-13-13

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

IREDELL COUNTY HEATLH DEPARTMENT

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:

- ___ 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

Signature: _____

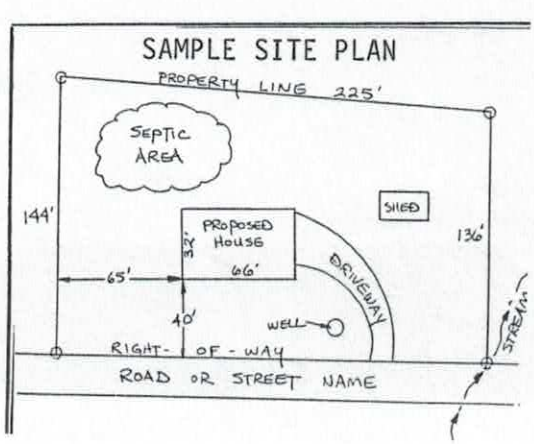
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

9-17-13

DATE

USE THIS SPACE TO DRAW YOUR SITE PLAN

SEE ATTACHED site plan



IREDELL COUNTY HEALTH DEPARTMENT

STATESVILLE 704-878-5305 50.00 T 9.4 MOORESVILLE 704-664-5281

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

PERMIT# 118517 PIN# 4648 32 8497.12 4648-32-7322 DATE 1/24/05

OWNER OR CONTRACTOR Anaheim Homes PHONE: Business 704-907-9250 Home

ADDRESS PO Box 610 Cornelius, NC. 28031

LOCATION 150W TR Bluefield Dr Dixieland Dr Cedar Woods Dr. on (R) near end.

SUBDIVISION Cedar Woods BLOCK / SECTION LOT #12 Area 3 LOT AREA ~.75 SITE CLASS. P3 DESIGN FLOW 360 L.T.A.R. .25-.3

Septic Tank: 1000 Gallons; STB 794 Date 12/2/04
Pump Tank: 1000 Gallons; PT 283 Date 10/22/04
Pump Make: Liberty Model Vertex Serial No.
Nitrification Field: No Fields 1 Square Feet 440 Linear Feet 220
No Lines 4@55' Trench Width 24" Max Trench Bottom Depth 36"

[X] New System [ ] Repair System Type: I, II, III, [IV], V, VI
System Description: Pressure Dosed - 16" PPBPS
Repair System Description: Same Type
Maintenance Agreement Required: [X] Yes [ ] No
Gravel Depth —
[ ] Slab [X] Crawl Space [ ] Basement w/plumbing [ ] Basement wo/plumbing

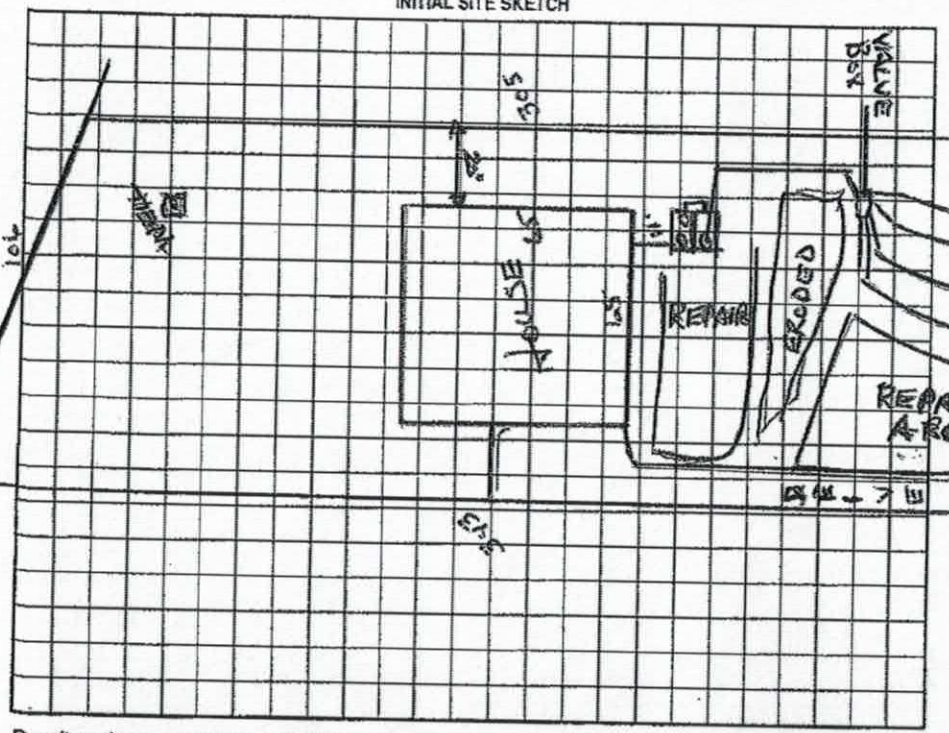
[X] House/Mod. Home No. Bedrooms 3
[ ] Mobile Home No. Bathrooms 3
[ ] Business No. Employees
[ ] Other

Water Supply: [X] Individual [ ] Public [ ] Community

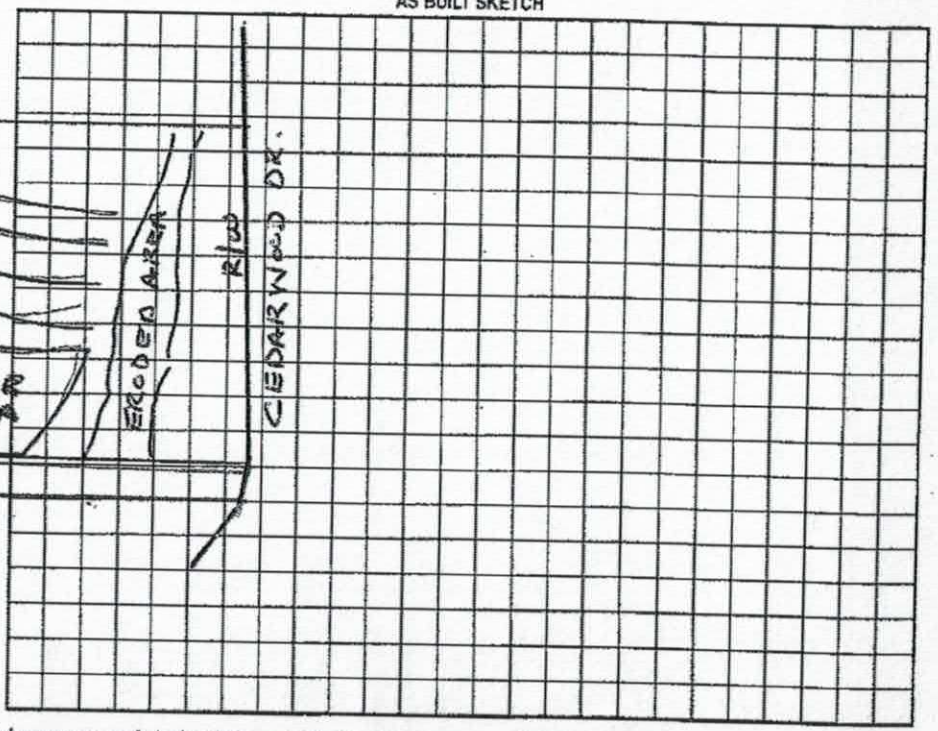
Comments:/Conditions:
Syntec Filter Installed

Comments:/Conditions:

INITIAL SITE SKETCH



AS BUILT SKETCH



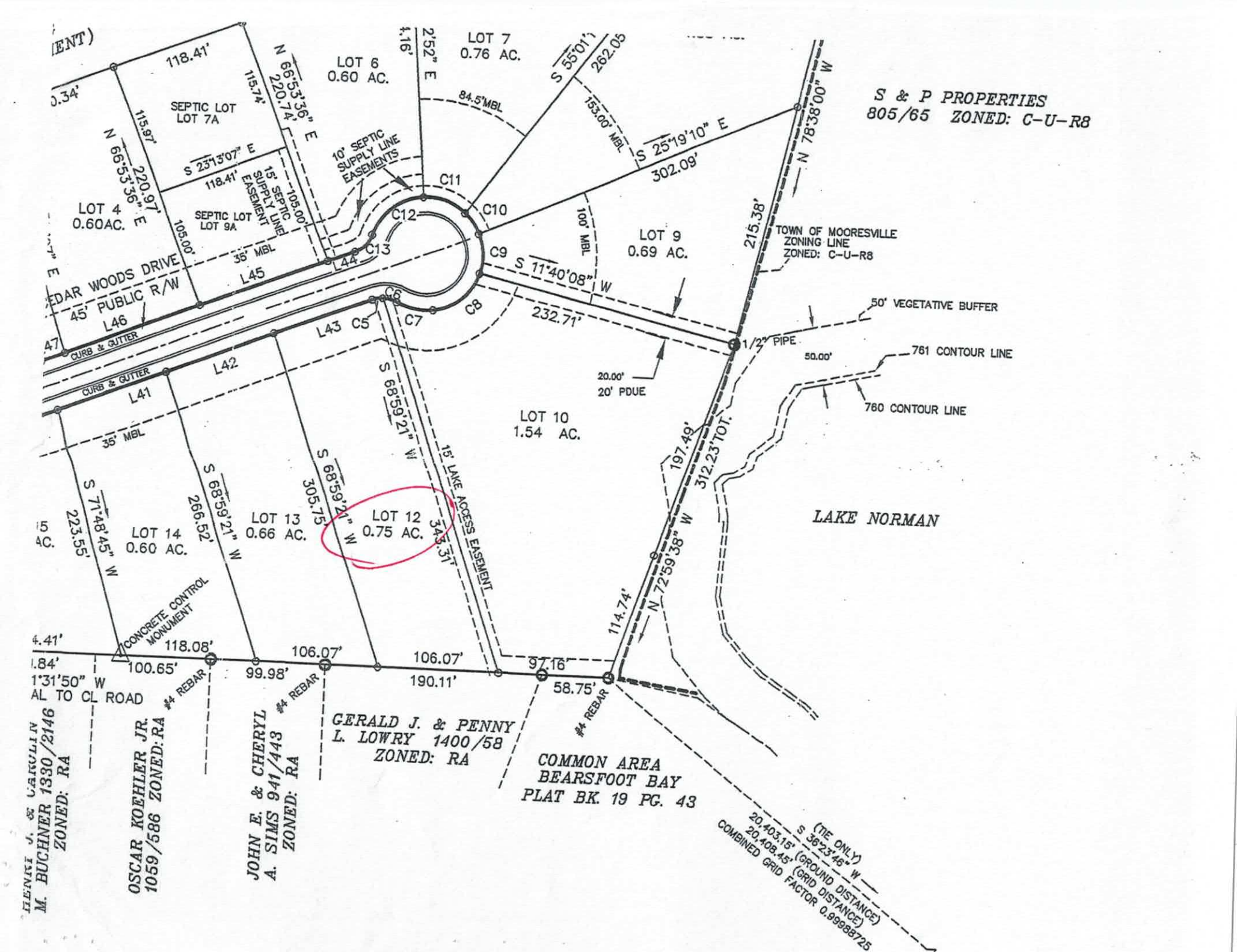
Permit can be suspended or revoked if any false information is supplied toward securing the permit/any unauthorized changes are made to the site/any unauthorized changes are made in the installation of the system. Improvement Permit with plat valid without expiration. Improvement Permit with site plan valid for sixty months. Authorization to Construct is valid for a period equal to that of Improvement Permit – not to exceed sixty months.

Signed: [signature] date 1/26/05 Installed by: Mark Jackson

Improvement Permit by: Wesley Sparks R.S. date 1/24/05 Operation Permit by: [signature] R.S. date 2/23/05

Authorization to Construct by: Wesley Sparks R.S. date 1/24/05 Existing System Inspection by: date

HEALTH DEPT. COPY: WHITE OWNER COPY (FINAL): YELLOW OWNER COPY (INITIAL): PINK


LOT 6
0.60 AC.
LOT 7
0.76 AC.
SEPTIC LOT
LOT 7A
SEPTIC LOT
LOT 9A
LOT 4
0.60AC.
LOT 9
0.69 AC.
LOT 10
1.54 AC.
LOT 12
0.75 AC.
LOT 13
0.66 AC.
LOT 14
0.60 AC.
S & P PROPERTIES
805/65 ZONED: C-U-R8
TOWN OF MOORESVILLE
ZONING LINE
ZONED: C-U-R8
CEDAR WOODS DRIVE
45' PUBLIC R/W
CURB & GUTTER
10' SEPTIC
SUPPLY LINE
EASEMENTS
15' SEPTIC
SUPPLY LINE
EASEMENT
15' LAKE ACCESS EASEMENT
20.00'
20' PDUE
50' VEGETATIVE BUFFER
761 CONTOUR LINE
760 CONTOUR LINE
1/2" PIPE
LAKE NORMAN
CONCRETE CONTROL
MONUMENT
#4 REBAR
GERALD J. & PENNY
L. LOWRY 1400/58
ZONED: RA
COMMON AREA
BEARSFOOT BAY
PLAT BK. 19 PG. 43
OSCAR KOEHLER JR.
1059/586 ZONED: RA
JOHN E. & CHERYL
A. SIMS 941/443
ZONED: RA
M. BUCHNER 1330/2146
ZONED: RA
(TIE ONLY)
20,403.15' (GROUND DISTANCE)
20,405.45' (GRID DISTANCE)
COMBINED GRID FACTOR 0.99988725

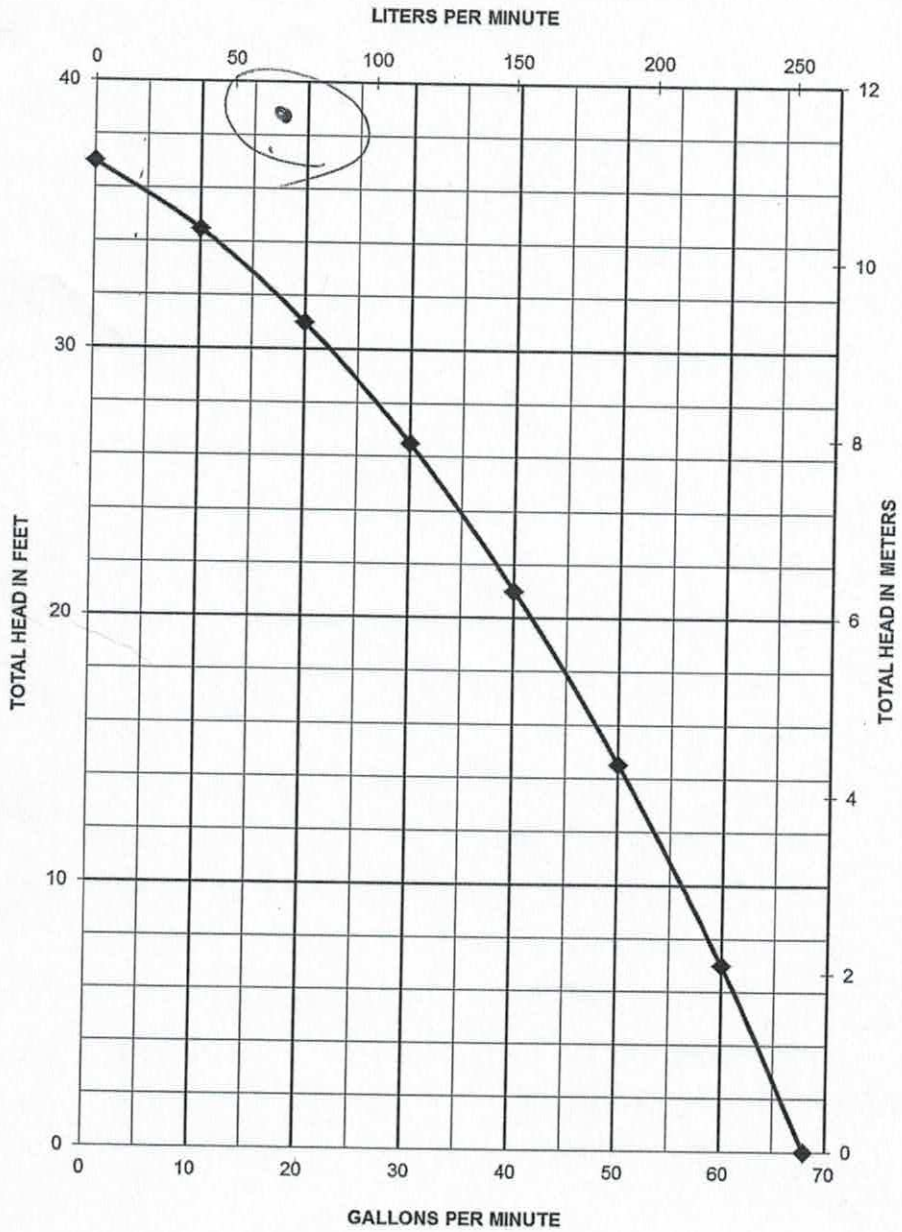
Installed Pump PER
ICI&D - Permit

Liberty Pumps®



Pump Specifications

280 Series 1/2 hp Submersible Effluent Pump



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