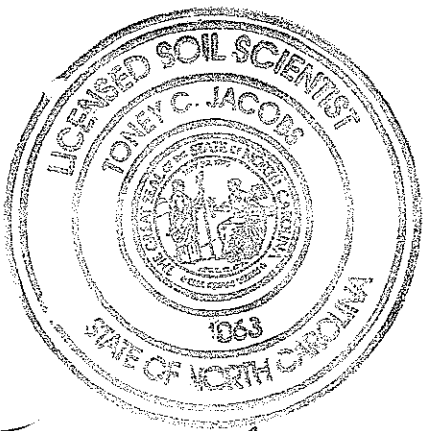
RECEIVED APR 2 4 2015

FAST TRACK
GRAVITY 25% REDUCTION SEPTIC SYSTEM ADDITION
FOR
1 BEDROOM TO AN EXISTING 4 BEDROOM SYSTEM
567 ISLE OF PINES ROAD
MOORESVILLE NC 28117

Prepared for
Doug Bullington
567 Isles of Pines Road
Mooresville, North Carolina 28117
954-232-2428
douglasbullington@gmailcom

Prepared by:
Toney C. Jacobs, LSS
Jacobs On-Site Development, Inc.
168 Broadbill Drive
Mooresville, North Carolina 28117
704 662-9845
toneycjacobs@gmail.com

April 21, 2015



Toney C. Jacobs, LSS

Copy: Fast Track Staff
Iredell County Health Dept.
Mooresville, NC 28115
704-660-3625

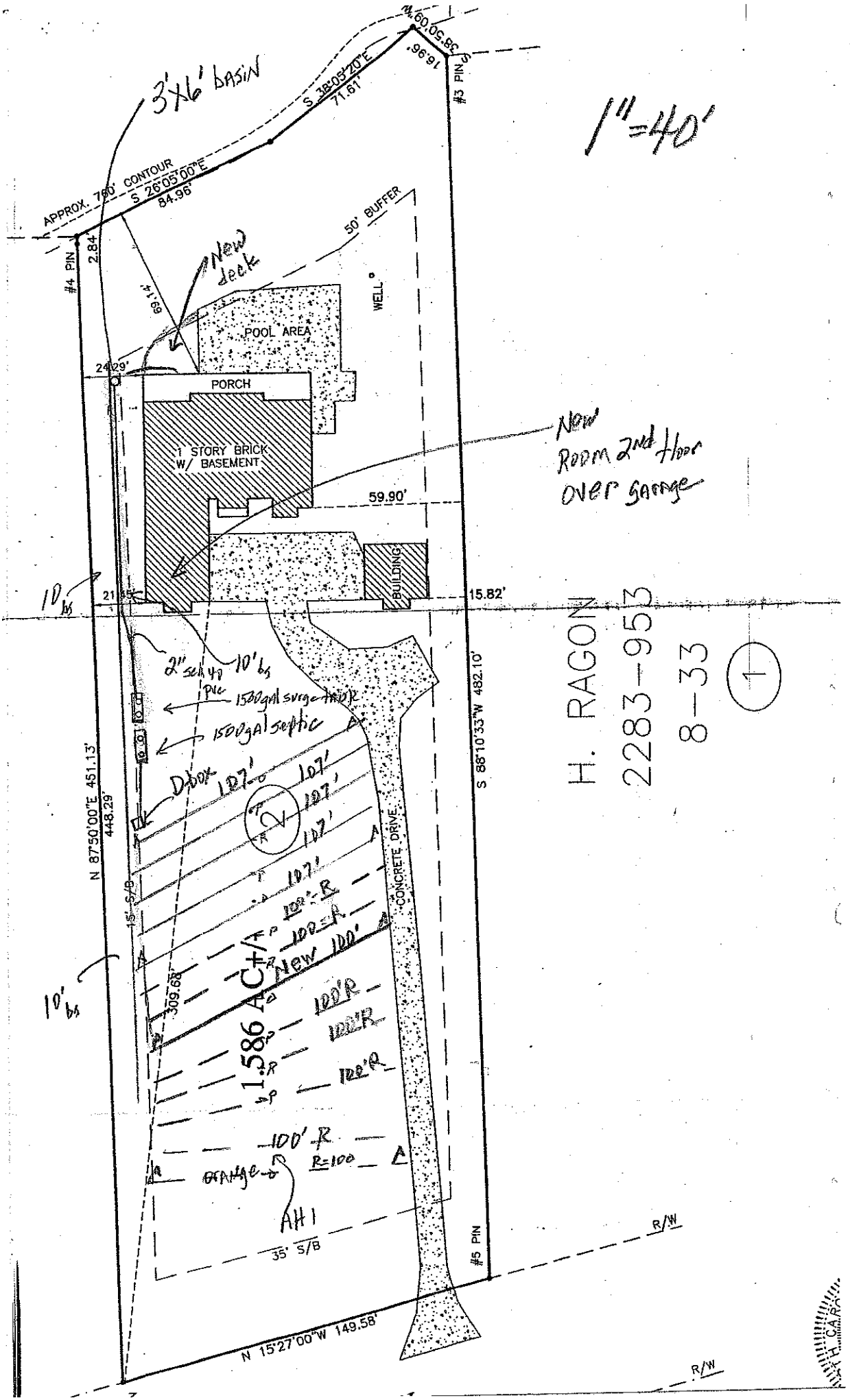
History:

The house and 4 bedroom system were completed in 2003. The new owner is adding one bedroom over the existing garage (*no change in footprint)*, an elevator in an existing stairwell and an outdoor kitchen over the existing septic and pump tank. Because the tanks must be increased to accommodate the 5th bedroom, an ejector system that pumps from the rear yard to the front yard is being added so that a new 1500 gal tank will not be required in the rear yard. A new surge or settling tank and septic tank are being added to the front yard.

DESIGN SPECIFICATIONS
567 Isle of Pines Road

Daily design flow:	600 gpd
Number of bedrooms:	5 bedroom
Foundation:	basement with plumbing
Settling or surge tank (required with ejector pump):	1500 gal. (no filter)
Septic tank size:	1500 gal. (with filter)
Primary system loading rate:	0.3 gpd/ft^2
Primary system: added)	535' of gravel plus 100' of 25% reduction (being
Number and length of laterals:	5 @ 107' & 1 @100' reduction
Line depth:	new line 30 inches
Dosing:	D-box to replace existing manifold – 6 taps
Repair system loading rate:	0.3 gpd/ft^2
Repair system:	25% reduction
Number and length of laterals:	5 @ 100'
Total ft. of repair designated on site plan:	600'

Enclosed: *Quote from Xylem pumps for ejector. Follow these specifications or equivalent. This will be subject to Plumbing Code.*


3'x6' BASIN
1"=40'
N 60°05'58"E 96.91'
#3 PIN
S 38°05'20"E 71.61'
APPROX. 760' CONTOUR
S 26°05'00"E 84.96'
50' BUFFER
#4 PIN
2.84'
69.14'
New deck
WELL
POOL AREA
24.29'
PORCH
1 STORY BRICK W/ BASEMENT
New Room 2nd Floor over garage
59.90'
BUILDING
10' bs
21.35'
15.82'
2" sch 40 PVC
10' bs
1500gal surge tank
1500gal septic
D-box
127'
107'
100'R
New 100'
1.586 AC+/-
309.68'
15' S/B
N 87°50'00"E 451.13'
448.29'
CONCRETE DRIVE
S 88°10'33"W 482.10'
#5 PIN
10' bs
100'R
R=100
GARAGE
AH 1
35' S/B
R/W
N 15°27'00"W 149.58'
R/W
H. RAGON
2283-953
8-33
1

xylem

1150 Emma Oaks Trail
Lake Mary, FL 32746
PH (407) 829-7808
FAX (407) 829-7809

By Jim Brown

QUOTE

SOLD TO: Toney C Jacobs

ToneyCJacobs@gmail.com

SHIP TO:

FACTORY ORDER NO.	INVOICE NO.
CUSTOMER ORDER	PULLED BY
CREDIT	CHARGE TAX
ORDER DATE	SHIP DATE
4-22-15	
SHIP VIA ☐ PREPAID ☐ COLLECT	
OTHER	

QUANT.	UNIT OR PART NO.	SHIP	B/O	LIST PRICE	MULT.	NET AMOUNT
	Large house Sewage waste collection and pumping.					
	22' Elivation to a Septic tank, open discharge, through					
	2" PVC pipe, Less than 100' away					
	60GPM at 40 TDH					
1	WS1012BHF			$1559.00		
	1hp 1ph 230Volt 2" Discharge					
1	S10020			$750.00		
	Simplex Control Panel W. high water alarm					
3	A2D33W Float Switches			$210.00 For All (3)		
1	A9-2BPT			$114.00		
	Ball type Plastic 2" NPT Checkvalve					
1	FSB1 Float Switch bracket			$175.00		
1	A7-3672F			$1480.00		
	36" Dia. X 72" Deep Fiberglass basin					
	With anti floatation collar					

ORIGINAL

xylem

1150 Emma Oaks Trail
Lake Mary, FL 32746
PH (407) 829-7808
FAX (407) 829-7809

By Jim Brown

QUOTE

SOLD TO: Toney C Jacobs

SHIP TO:

FACTORY ORDER NO.	INVOICE NO.
CUSTOMER ORDER	PULLED BY
CREDIT	CHARGE TAX
ORDER DATE	SHIP DATE
4-22-15	

SHIP VIA ☐ PREPAID ☐ COLLECT

OTHER

QUANT.	UNIT OR PART NO.	SHIP	B/O	LIST PRICE	MULT.	NET AMOUNT
1	A8-36T Solid			$445.00		
	1/4" Thick Steel Basin Cover					
1	A8-4U			$22.00		
	4" Inlet grommet					
2	A8-2U			$26.00 for Both		
	2" Rubber grommets ① Discharge					
	① Vent					
2	A8-15U			$26.00 for Both		
	1½" Rubber grommets Electrical					
	total List Price			$4807.00		
	Parts needed 2" Pipe					
	Sch 80 2" Threaded union					
	⑤ 2" NPT Male adapters					
	All plumbing electrical through					
	basin wall.					

ORIGINAL

On-site Wastewater Section

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Lot #:
File #:
AppID:

Owner: Doug Billington
Address:
Proposed Facility: Design Flow (.1949)
Location of Site: 567 Isle of Pines

Applicant:
Date Evaluated: 4/15/15
Property Size: 1 in 15AC
Property Recorded:

Water Supply: [ ] Public [ ] Individual [✓] 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	b PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr Horiz	Profile Class & LTAR
1	LS 45%	0-16	g WFSBK cl	friasmp 1:1	or A		n/a		0.3
		16-22	mmasbk cl	" " fragp "					
		22+	WFSBR cl	" " "					

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR		

Other Factors (.1946):
Soil Evaluation By:
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

Bullington

Elevations 567 Isle of Pines

BS	Ground surface Grinder tank	15.5'	
HI		3.3	
FS	Ground " Septic + Surge tank	2.7'	
FS	" " Lid to manifold	2.5	
"	" " Upper line existing	2.5	org
"	" " Lower + " "	3.8	org
"	" " New line	4.9'	
"	" " Repair manifold	4.2	

Grinder 15.5'

+ 6.0 in ground

21.5

HI - 3.3

18.2' HT