THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

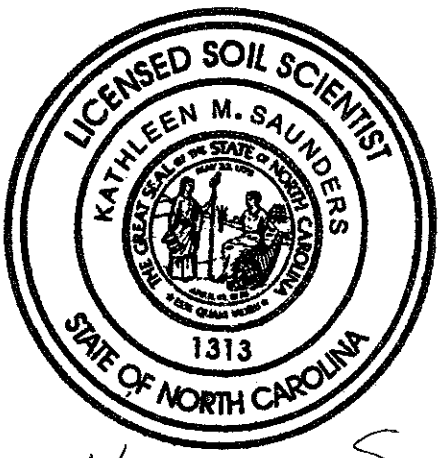
RE: 607 614 Stillwater Drive

Date: June 9, 2016

Attached is the septic specification information required to permit 614 Stillwater Drive for an Improvement Permit and/or Construction Authorization Permit in Iredell County via the Expedited Review Process.

The attached information is not an Improvement Permit or an Authorization to Construct, and is only to assist the ICHD with permitting. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC Rules, which these specifications are in accordance with. If the ICHD wishes to change tank locations, distribution devices, etc they may do so at their discretion.

All information and specifications have been prepared in conjunction with ICHD permitting guidelines for the current lot owners to acquire an Improvement Permit and/or Authorization to Construct on this lot. It is ultimately the ICHD's responsibility to verify all specifications, including soil descriptions, before permitting and/or septic system installation.



Kathleen Saunders

Falls Park Lot 32 Fast Track - The Oaks Group, PA

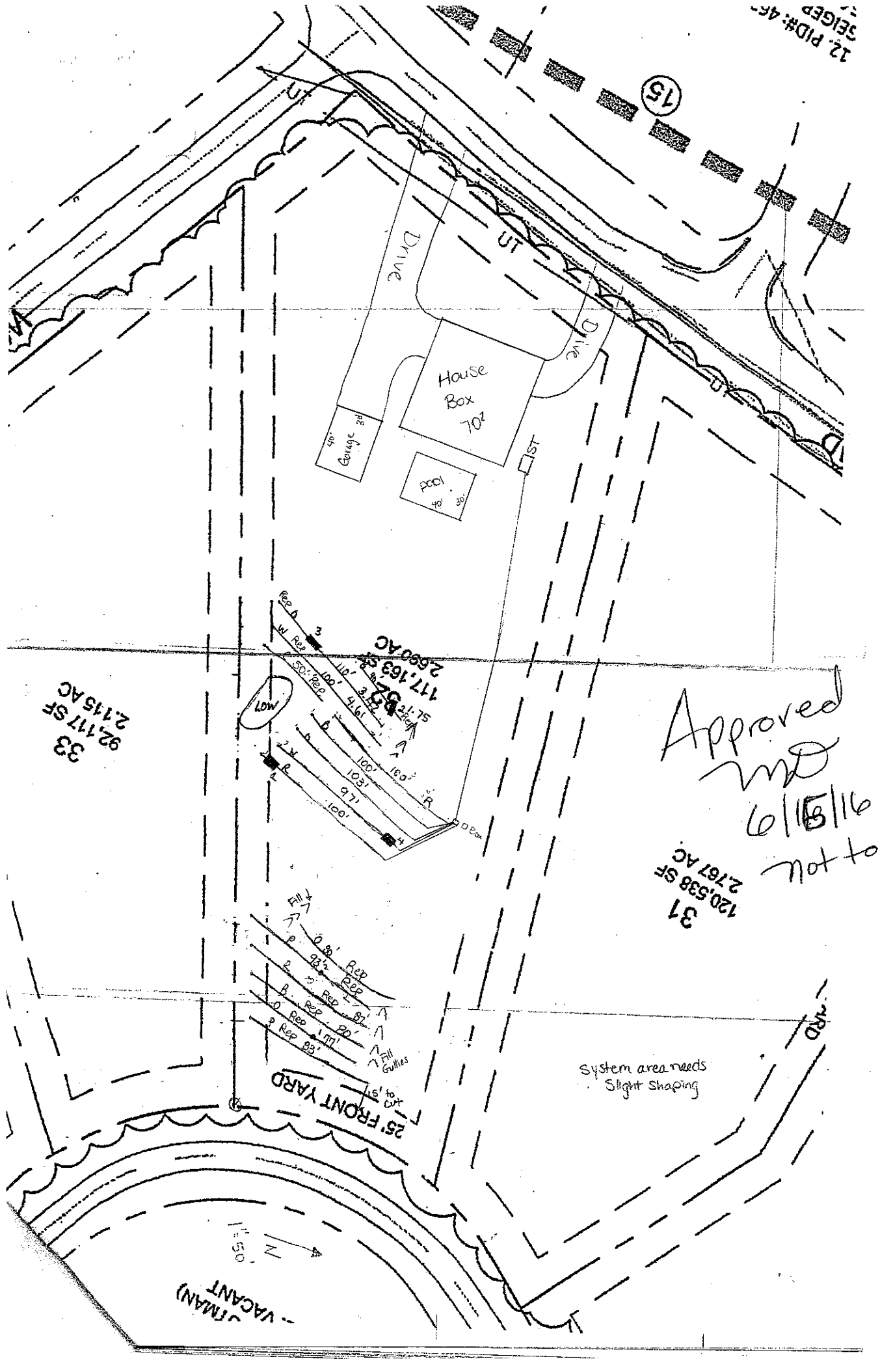
Number of Bedrooms	**5**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**600**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	5 (See Table)
Total Linear Feet	500
Trench Width	3' min.
Trench Spacing	9' min.
Distribution Device	Distribution Box
Tank Size	1500 gallon tank
Max Trench Bottom Depth (Low Side)	24"
Maintenance Agreement Required	No
Repair System	**25% Reduction**
Total Linear Feet	800
Repair Loading Rate	0.3

Approved
MD
6/15/16

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)
1	Repair	Blue	25% Reduction	40
2	Repair	Orange	25% Reduction	110
3	Repair	White	25% Reduction	100
4	Repair	Red	25% Reduction	50
5	System	Red	25% Reduction	100 endfed
6	System	Blue	25% Reduction	100 endfed
7	System	Orange	25% Reduction	103 endfed
8	System	White	25% Reduction	97 endfed
9	System	Red	25% Reduction	100 endfed
10	Repair	Orange	25% Reduction	80
11	Repair	Pink	25% Reduction	93
12	Repair	Red	25% Reduction	87
13	Repair	Blue	25% Reduction	80
14	Repair	Orange	25% Reduction	77
15	Repair	Pink	25% Reduction	83
				Total System: 500'
				Total Repair: 800'

Note: Keep proper setbacks to foundation drains
Distribution devices and tank locations can be altered at ICHD's discretion
Shave berms to prevent surface water from ponding
Tanks must be set to achieve gravity flow once final foundation placement is set


15
UT
Drive
House
Box
70²
Garage 24'
Pool
40'
30'
ST
Rep
W Rep
3
50' Rep
100'
110'
3.2%
4.6%
21.5%
LDW
2
100'
103'
97'
100'
18.0%
R
D Box
4
Fill
Rep
98½'
87'
80'
Fill Gullies
1m'
83'
15' to cut
25' FRONT YARD
50'
VACANT
33
92,117 SF
2.115 AC
2,690 AC
117,163 SF
31
120,538 SF
2.767 AC
Approved
MD
6/15/16
not to Scale
System area needs
Slight Shaping

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

Sheet ___ of ___
PROPERTY ID #: 32
COUNTY: _____

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

APPROVED MAY 04 2016

OWNER: Falls Park LLC / Livewell Homes LLC
ADDRESS: _____
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 600
LOCATION OF SITE: FP 32

APPLICATION DATE: _____
DATE EVALUATED: 4/07/16
PROPERTY SIZE: 2.09
PROPERTY RECORDED: _____

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
1	L ~10-12%	0-4	Mo GR SL	FR ns/np	Br				0.3
		4-48	Mo SBK C	FR ss/sp	R; FF Sap				
2	L	0-10	Mo GR SL	FR ss/sp	Br				0.3
		10-24	mo SBK C	↓	R				
		24-48	WK SBK CL	↓	R; F/c Sap				
pit 1	L	0-23	MO SBK C	FR ss/sp	R; F Sap				0.3
		23-48	WK SBK SCL	↓	R C Sap				
pit 3	L	0-33	MO SBK C	FR ss/sp	R				0.3
		33-80	WK SBK CL	↓	R; F Sap				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)	25% Red	LPP PBPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): P.S.
EVALUATED BY: KMJ
OTHER(S) PRESENT: ELH

COMMENTS: _____

On-site Wastewater Section

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Lot #: 32
File #:
AppID:

Owner: Falls Park, LLC / Livewell Homes LLC
Address:
Applicant:
Proposed Facility: SFR
Design Flow (.1949) 480
Date Evaluated: 3/24/14
Location of Site: Falls Park Lot 32
Property Size: 2.69
Property Recorded:

Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Approved 4/7/14 KMS

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .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	L 10-12%	0-23	Mo SBK C	FR SS/SP	Red; F Sap				0.3
		23-48	WK SBK SCL	FR SS/SP	Red; C Sap				
2	L	0-3	Mo GR SL	FR ns/np	Br				0.3
		3-32	Mo SBK C	FR SS/SP	Red; F Sap			F WR F VFI Sap	
		32-52	WK SBK CL	FR SS/SP	Red; C Sap				
3	L	0-33	Mo SBK C	FR SS/SP	Red				0.3
		33-50	WK SBK CL	FR SS/SP	Red; F Sap				
4	L	0-11	WK SBK SCL	FR SS/SP	Br R				0.3
		11-35	Mo SBK C	FR SS/SP	Red				
		35-48	WK SBK C	FR SS/SP	Red; C Sap				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR	0.3	0.3

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