THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

APPROVED APR 26 2016

From: Kathleen Saunders, LSS

RE: 116 Millhouse Road, Mooresville NC

Date: March 22, 2016

Attached is the septic specification information required to permit 116 Millhouse Road for an Improvement 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.

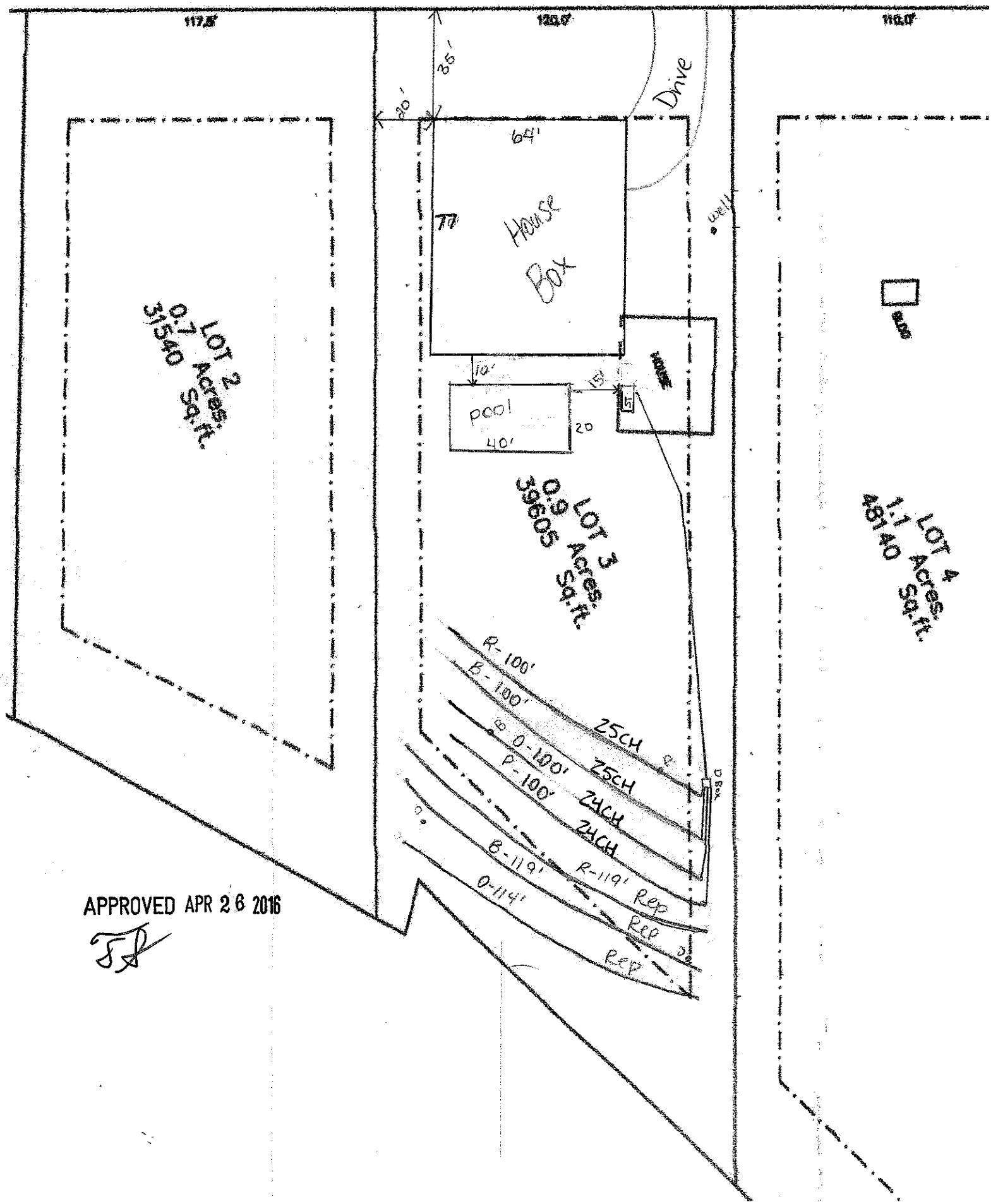
All information and specifications have been prepared in conjunction with ICHD permitting guidelines for the current lot owners to acquire an Improvement Permit on this lot. It is ultimately the ICHD's responsibility to verify all specifications, including soil descriptions, before permitting and/or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

LICENSED SOIL SCIENTIST
KATHLEEN M. SAUNDERS
1313
STATE OF NORTH CAROLINA

Kathleen Saunders

MILLHOUS

Scale 1"=40'



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FA

Meadow Fields Lot 3 Fast Track - The Oaks Group, PA

Number of Bedrooms	**4**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	4 (See Table)
Total Linear Feet	400
Trench Width	3' min.
Trench Spacing	9' min.
Distribution Device	Drop Boxes or Other
Tank Size	1000 gallon tank
Max Trench Bottom Depth	24"
Maintenance Agreement Required	No
Repair System	**LP PPBPS**
Total Linear Feet	352
Repair Loading Rate	0.3

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)
1	System	Red	25% Reduction	100 endfed
2	System	Blue	25% Reduction	100 endfed
3	System	Orange	25% Reduction	100 endfed
4	System	Pink	25% Reduction	100 endfed
5	Repair	Red	LP PPBPS	119
6	Repair	Blue	LP PPBPS	119
7	Repair	Orange	LP PPBPS	114
				Total System: 400'
				Total Repair: 352'

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Note: Tank and distribution device locations can be altered at the discretion of ICHD. Keep proper setbacks to foundation drains

DHHS

ON-SITE WASTEWATER SECTION

Sheet ____ of ____
PROPERTY ID #: ____
COUNTY: ____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: IQ Custom Construction — APPLICATION DATE 3-22-16
ADDRESS: 546 Edmiston Rd Mt. Ulla — DATE EVALUATED: 4-20-16
PROPOSED FACILITY: 4BR House — PROPOSED DESIGN FLOW (.1949): 480 gal/day — PROPERTY SIZE: 0.9 acres
LOCATION OF SITE: Lot 3 116 Millhouse Rd. Mooresville — PROPERTY RECORDED: No
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other meadows field
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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
Repair "D" Repair Adjacent LSS hole "D"	Linear side slope	0-10	Fine SCL w. SBK	Slightly Friable, SS Sp, Sexp	—	48	—	—	0.325
		10-23	Clay w. SBK	sl. Firm, SS, Sp, Sexp					
		23-48	Clay Loam medium SBK	sl. Friable, SS Sp, Sexp					
Primary 113" Epit Adjacent top Lateral	pit Linear side Slope ≈ 7%	0-8	Fine SCL w. SBK	Friable (slightly), SS, Sp, Sexp	—	48	—	—	0.30
		8-28	Clay weak SBK	sl. Firm, SS, Sp, Sexp					
		28-48	Clay Loam med SBK	sl Friable, SS Sp, Sexp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	Yes	Yes
System Type(s)	25% Reduction	50% reduction
Site LTAR	0.30	0.325

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Tom Shuck
OTHER(S) PRESENT: Kathleen Saunders

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 #:
COUNTY: Iredell

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

OWNER: ID Custom Const
ADDRESS: 116 millhouse Rd mooresville
PROPOSED FACILITY: SFR
LOCATION OF SITE: Lot 3
APPLICATION DATE
DATE EVALUATED: 2/16
PROPOSED DESIGN FLOW (.1949): 480
PROPERTY SIZE:
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	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
A	L	0-39	MO SBK CL	FR SS/SP	R; F yel br WR				0.3
		39-48	WK SBK CL	↓	R; F Sap				
B	L ~5%	0-29	MO SBK C	FR SS/SP	R				0.3
		29-48	WK SBK CL	↓	R; C Sap				
C	L	0-4	MO GR SCL	FR NS/NP	R				0.3
		4-26	MO SBK C	FR SS/SP	R				
		26-45	WK SBK CL	↓	R; C Sap				
		45-48	MA L Sap	↓	yel R				
D	L	0-19	MO SBK C	FR SS/SP	R				0.3
		19-40	WK SBK CL	↓	R C Sap				
		40-48	MA L Sap	↓	R				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
AvailableSpace (.1945)		
System Type(s)	25% Red	LPPP BPS
Site LTAR	0.3	0.3

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

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COMMENTS: