THE OAKS GROUP, PA

APPROVED APR 26 2016

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

RE: 104 Millhouse Road, Mooresville NC

Date: March 22, 2016

Attached is the septic specification information required to permit 104 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

Meadow Fields Lot 1 Fast Track - The Oaks Group, PA

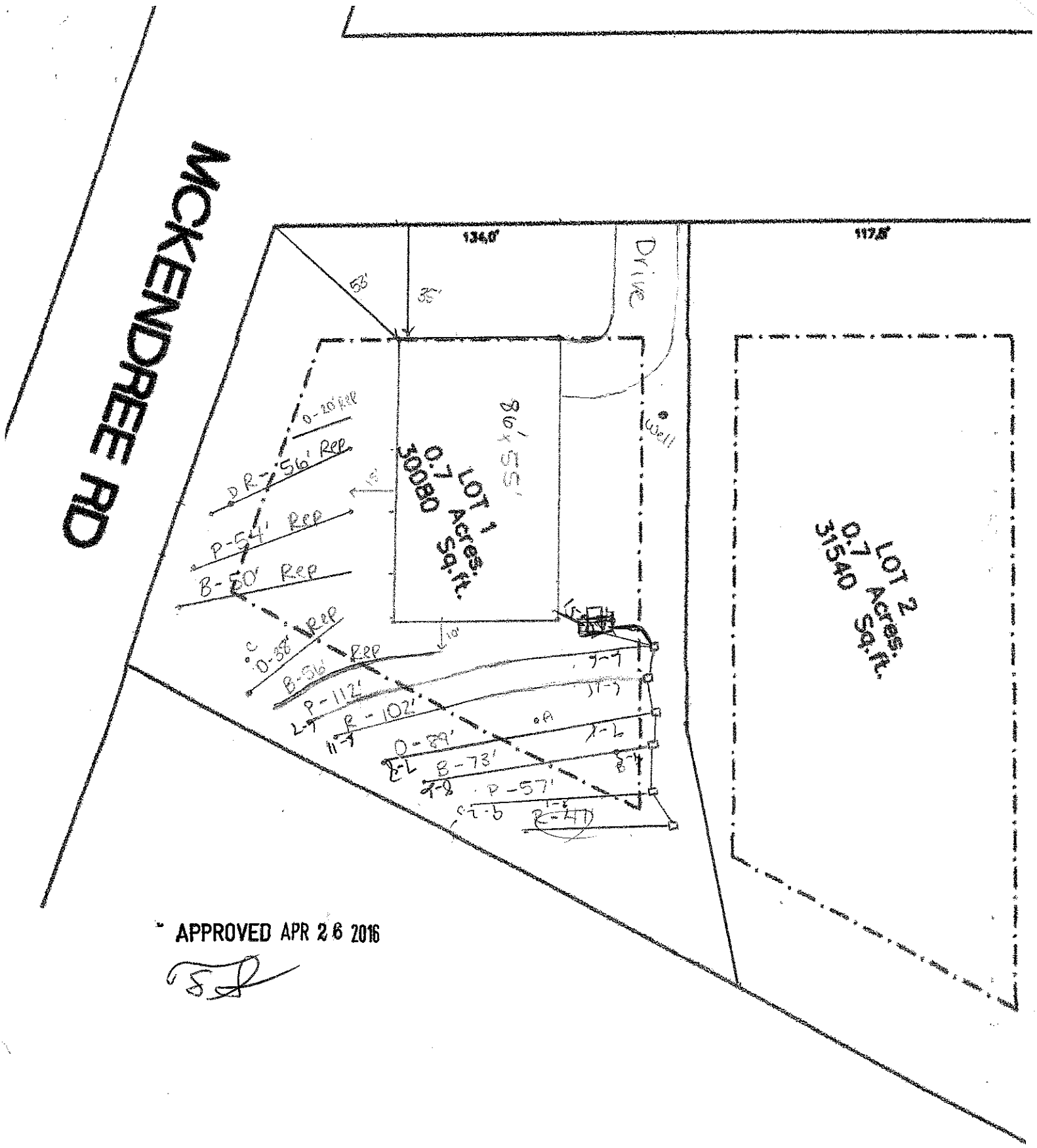
Number of Bedrooms	**4**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.25**
Primary System Type	**25% Reduction**
No. Lines	6 (See Table)
Total Linear Feet	480
Trench Width	3' min.
Trench Spacing	9' min.
Distribution Device	Drop Boxes or Other
Tank Size	1000 gallon tank
Max Trench Bottom Depth	24"
Maintenance Agreement Required	No
Repair System	**LP PPBPS**
Total Linear Feet	274
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	Repair	Orange	LP PPBPS	20
2	Repair	Red	LP PPBPS	56
3	Repair	Pink	LP PPBPS	54
4	Repair	Blue	LP PPBPS	50
5	Repair	Orange	LP PPBPS	38
6	Repair	Blue	LP PPBPS	56
7	System	Pink	25% Reduction	112 endfed
8	System	Red	25% Reduction	102 endfed
9	System	Orange	25% Reduction	89 endfed
10	System	Blue	25% Reduction	73 endfed
11	System	Pink	25% Reduction	57 endfed
12	System	Red	25% Reduction	47 endfed
				Total System: 480'
				Total Repair: 274'

APPROVED APR 26 2016

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



APPROVED APR 26 2016

1" = 40'

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1/1
Property ID:
Lot #: 1
File #:
AppID:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: IQ Custom Homes
Address: 104 millhouse Rd 28117
Proposed Facility: SFR
Design Flow (.1949) 480
Location of Site: Millhouse Lot 1

Applicant:
Date Evaluated: 3/1/16
Property Size: 0.7
Property Recorded:

Water Supply: [ ] Public [ ] Individual [X] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] 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
A	L	0-22	MoSBKC	FR SS/SP	R				0.25
		22-36	MoSBKC	↓	R; C Mn				
		36-48	WkSBKC	↓	R; F yel Br WR				
B	L 5-8%	0-32	MoSBKC	FR SS/SP	R; C Mn				0.25
		32-49	WkSBKC	↓	R; F Mn				
C	L	0-30	MoSBKC	FR SS/SP	R; F/C yel Br WR				0.3
		30-48	WkSBKC	↓	R; C yel Br WR; F/C sap				
D	L	0-30	MoSBKC	FR SS/SP	R; C yel Br WR				0.3
		30-48	MoSBKC	↓	R; F yel Br WR; F/C sap				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)	25% Red	LP PPBPS
Site LTAR	0.25	0.3

Other Factors (.1946): P.S.
Soil Evaluation By: KMS
Others Present: ELH
Site Classification (.1948): P.S.
Site Evaluation By: KMS
Others Present: ELH

APPROVED APR 26 2016

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: 640 Edmiston Rd. — DATE EVALUATED: 4-20-16
PROPOSED FACILITY: 4 BR House — PROPOSED DESIGN FLOW (.1949): 480 gal/day — PROPERTY SIZE: 0.7 acres
LOCATION OF SITE: Lot 1 Mill house — PROPERTY RECORDED: Yes
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
Primary "A" Adjacent LSS Hole "A"	Linear side slope	0-8	SBK CL	Slight Friable, SS, Sp, Sap	—	48	—	—	0.275 PS
		8-48	SBK clay	Slightly Firm, SS, Sp, Sap					
		38" → 48"	Few → Common SAP inclusions						
		Some Magan. nodules from		35-44"					
Repair "C" Adjacent LSS hole "C"	Linear side Slope	0-6"	SBK Clay	Slight Friable, SS, Sp, Sap	—	48	—	—	0.3 PS
		6-32	Clay weak SBK	Slightly Firm, SS, Sp, Sap					
		32-48	clay Loam weak SBK	Slight Friable, SS, Sp, Sap					
		Common SAP 12-18"		+ 36"-48"					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	OK	OK
System Type(s)	25%	50%
Site LTAR	0.275	0.3

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

COMMENTS: ____