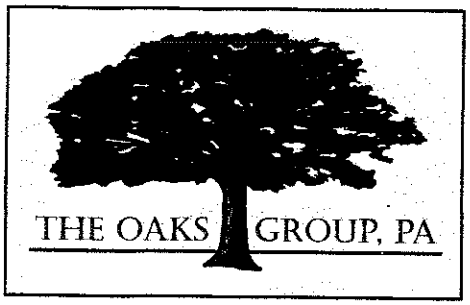


Date: February 4, 2013

To: Iredell County Environmental Health Department

From: Kathleen Saunders, LSS #1313

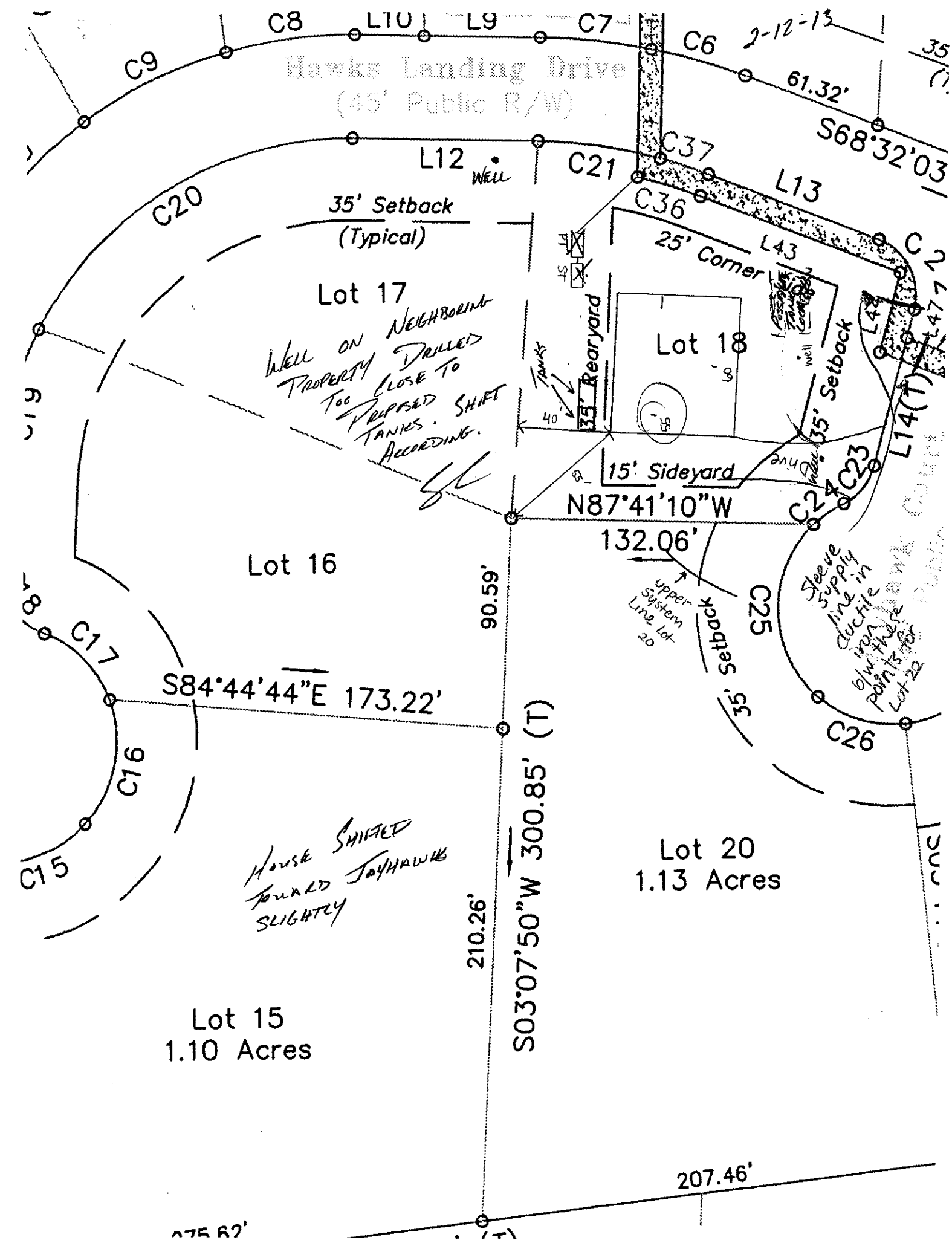
RE: Lot 18 Hawks Landing Subdivision Fast Track Septic Request

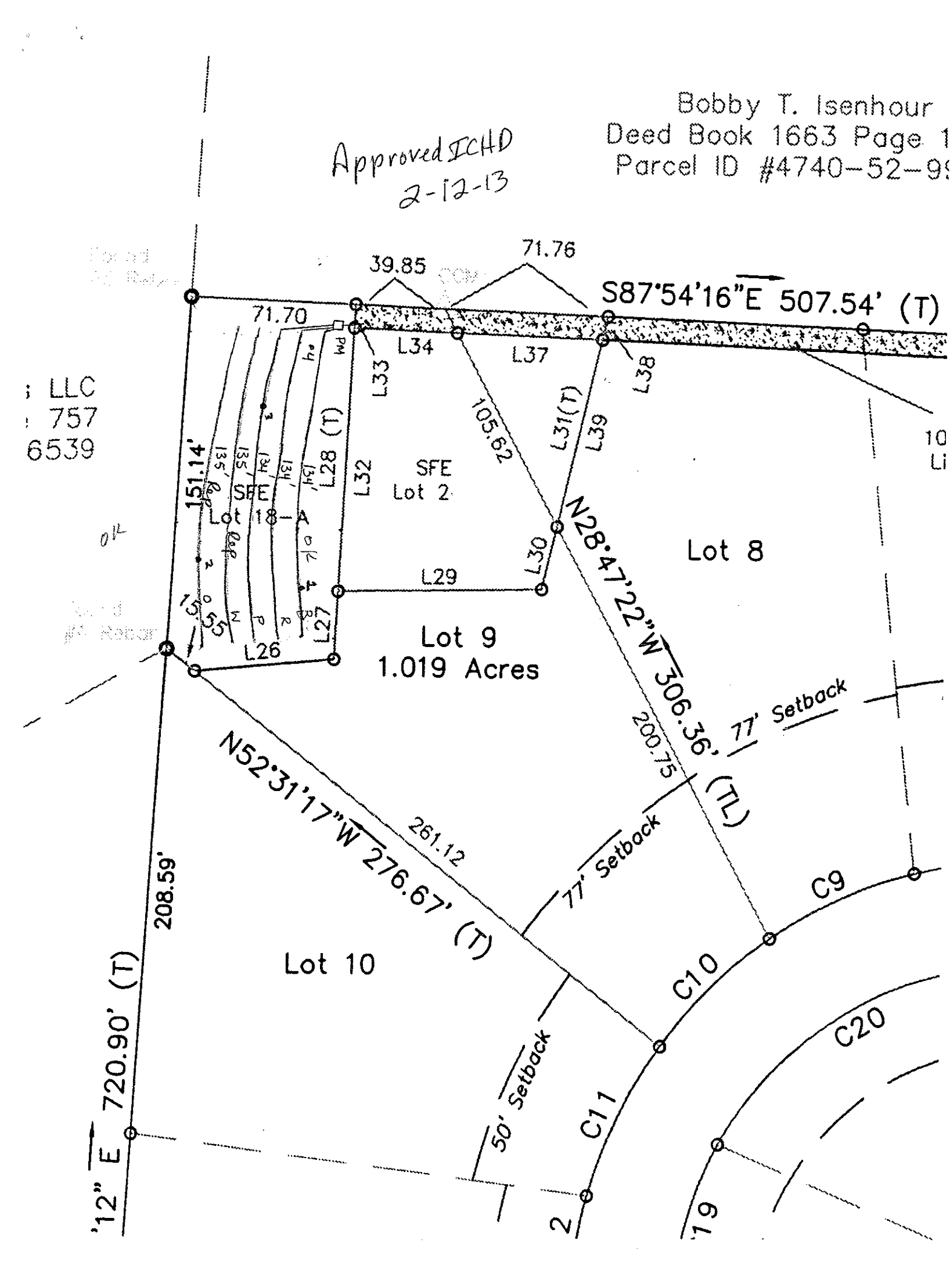
Please accept for submittal the following packet for review under the Fast Track Permitting Program for Iredell County, NC. This packet includes a scaled site plan and system design criteria prepared in conjunction with the Fast Track Program requirements by a Licensed Soil Scientist. It is ultimately the responsibility of the Iredell County Environmental Health Department staff to verify the information contained in this packet prior to issuing a Septic Improvement Permit.

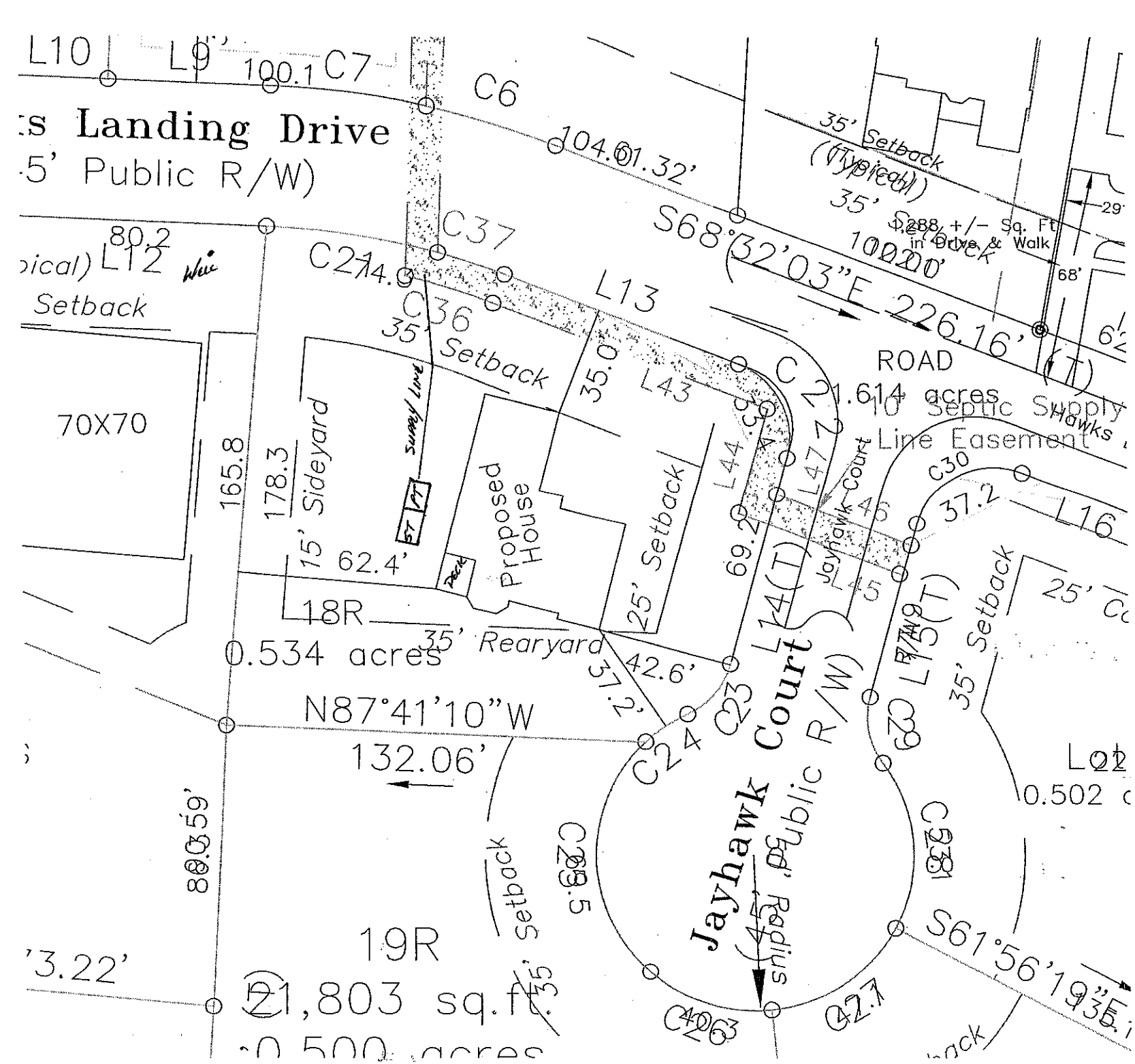
The permit request is for a non-expiring permit for a 4 bedroom house with a crawl space foundation. The primary system type is a pumped 25% Reduction system located on offsite easement 18A and the repair system is an LPPPBPS system type.

Please call me at 704-578-4951 once you've had a chance to review this packet in order to set up a site visit, or if you should have any questions.

SITE/SOIL EVALUATIONS • SEPTIC PERMITTING
227 GRAYLAND ROAD, MOORESVILLE, NC 28115 • KATHLEENMSAUNDERS@GMAIL.COM • MOBILE: (704) 578-4951


Hawks Landing Drive
(45' Public R/W)
C8
L10
L9
C7
C6
2-12-13
61.32'
S68°32'03
C9
C37
L12
WELL
C21
L13
C20
35' Setback
(Typical)
C36
25' Corner
L43
C22
Lot 17
WELL ON NEIGHBORING PROPERTY DRILLED TOO CLOSE TO PROPOSED SHIFT TANKS. ACCORDING.
Tanks
35' Rearyard
Lot 18
35' Setback
L44
L14(T)
L47
40'
15' Sideyard
N87°41'10"W
132.06'
C24
C23
Lot 16
90.59'
upper System Line Lot 20
C25
35' Setback
Sleeve supply line in ductile iron b/w these points for Lot 22
C17
S84°44'44"E 173.22'
C26
C16
C15
HOUSE SHIFTED TOWARD JAYHAWK SLIGHTLY
Lot 20
1.13 Acres
210.26'
S03°07'50"W 300.85' (T)
Lot 15
1.10 Acres
207.46'


Approved ICHD
2-12-13
Bobby T. Isenhour
Deed Book 1663 Page 1
Parcel ID #4740-52-9
39.85
71.76
S87°54'16"E 507.54' (T)
71.70
L33
L34
L37
L38
105.62
L31(T)
L39
151.14'
L28 (T)
L32
SFE
Lot 2
SFE
Lot 18-A
L30
N28°47'22"W 306.36' (TL)
Lot 8
L29
L27
L26
Lot 9
1.019 Acres
200.75
77' Setback
N52°31'17"W 276.67' (T)
261.12
208.59'
77' Setback
C9
Lot 10
C10
C20
50' Setback
C11
'12" E 720.90' (T)


L10
L9
100.1
C7
C6
:s Landing Drive
-5' Public R/W)
104.01.32'
35' Setback
(Typical)
35' Setback
(Typical)
S68°32'03"E 226.16' (T)
80.2
C37
C36
C35
C34
C33
C32
C31
C30
L12
Setback
C27
14.9
L13
L43
L44
L45
L46
L47
35' Setback
35.0
ROAD
1.614 acres
10' Septic Supply
Line Easement
Hawks
70X70
165.8
178.3
15' Sideyard
Survey Line
62.4'
Proposed House
Deck
25' Setback
69.2
Jayhawk Court
37.2
L16
18R
0.534 acres
35' Rearyard
42.6'
37.2'
N87°41'10"W
132.06'
L14(T)
L15(T)
L17
L18
L19
35' Setback
25' C
Lot
0.502
Jayhawk Court
(45' Radius Public R/W)
C24
C23
C22
C21
C20
C29
C28
C26
C25
19R
21,803 sq.ft.
0.500 acres
80.03.59'
'3.22'
35' Setback
42.7
S61°56'19"E
35.
29'
68'
6'
1" = 40'
Lot + Survey
Line Location
Sc
one
5/15/15
Updated 9/15/15

Shane Cashion

From: Ronda Hart
Sent: Thursday, November 20, 2014 9:33 AM
To: Kathleen Saunders
Cc: Shane Cashion
Subject: RE: Hawks landing 18

Will do.

Shane, please see message below.

Ronda Hart
Office Assistant, Environmental Health Department
610 E. Center Avenue
Mooresville, NC 28115
Phone: (704) 660-3625
Fax: (704) 662-3239
Pursuant to North Carolina General Statues Chapter 132, Public Records, this electronic mail message and any attachments hereto, as well as any electronic mail messages that may be sent in response to it may be considered public record and as such are subject to request and review by anyone at any time. Also, the information contained in this message may be privileged and confidential. We will withhold confidential correspondences that are tagged as "Confidential" from public record requests. If this e-mail contains protected health information or personal identifying information, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited, except as permitted by law. If you have received this communication in error, please notify the sender immediately by replying to this message and deleting it from your computer. Thank You

-----Original Message-----
From: Kathleen Saunders [mailto:kathleenmsaunders@gmail.com]
Sent: Thursday, November 20, 2014 9:10 AM
To: Ronda Hart
Subject: Hawks landing 18

Ronda,

Please forward this to Shane; I don't have his email address. Thanks!

Shane,

After reviewing, I'm ok with changing the taps from sch 80 to sch 40 on Hawks landing lot 18 if you are ok with the change. The pump should be sized accordingly to accommodate the change.

Kathleen

Sent from my iPhone

Shane Cashion

From: Kathleen Saunders <kathleenmsaunders@gmail.com>
Sent: Monday, June 15, 2015 10:11 AM
To: Shane Cashion
Subject: Re: Hawks Landing lot 18

If the new tank locations meet the rules I have no problems with them moving the tanks.

Kat

Sent from my iPhone

On Jun 15, 2015, at 9:53 AM, Shane Cashion <shane.cashion@co.iredell.nc.us> wrote:

> Hey Kathleen,
>
> I hate to be keep bugging you on this but can we get a memo to alter tank location on lot 18? If so I think we can get this one done and leave you alone.
>
> Thanks
>
> Shane Cashion
> Iredell County Health Dept.
> 704-664-3703
> shane.cashion@co.iredell.nc.us
>
> <image001.png> <image002.png>
>
> Pursuant to North Carolina General Statues Chapter 132, Public Records, this electronic mail message and any attachments hereto, as well as any electronic mail messages that may be sent in response to it may be considered public record and as such are subject to request and review by anyone at any time. Also, the information contained in this message may be privileged and confidential. We will withhold confidential correspondences that are tagged as "Confidential" from public record requests. If this e-mail contains protected health information or personal identifying information, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited, except as permitted by law. If you have received this communication in error, please notify the sender immediately by replying to this message and deleting it from your computer. Thank You

Lot 18/18-A Hawks Landing Subdivision Fast Track

Number of Bedrooms	**4**
Basement or Crawl	**Crawls Space**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	3 (See Table)
Total Linear Feet	402
Trench Width	3' min.
Trench Spacing	9' min.
Trench Bottom Depth (low side)	36"
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	765' of 2" SCH 40 PVC
Flow Rate through the system	16.5 gpm
Elevation head	Approx. 25'
Pressure head	2.0'
Friction head	5.8'
20% Contingency	6.6'
Total Head	39.4'
Pump Requirements	16.5 gpm @ 39.4' of head To be designed by installer.
Maximum Dosing Volume	240 gal -2.0 doses/day @ design flow
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.14.5 min.
Repair System	**LP PPBPS**
Total Linear Feet	270'
Repair Loading Rate	0.3

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Elevation (Ft.)
1	System	Blue	25% Reduction	134 endfed	926.0
2	System	Red	25% Reduction	134 endfed	
3	System	Pink	25% Reduction	134 endfed	
4	Repair	White	LP PPBPS	135	
5	Repair	Orange	LP PPBPS	135	
				Total System: 402'	
				Total Repair: 270'	

Tank	Red	1000 gal (2 compartment)	938.0
Pump Tank	Red	1000 gal.	938.0
House			

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	3
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

Note: **Highest point along supply line route has an approximate elevation of 955'**
Elevations taken from topography maps on Iredell County GIS website
True elevations should be measured at installation to size pump

Project #:
Property ID #:
County: Iredell

SOIL/SITE EVALUATION

Sheet:
Date Evaluated: 11/29/12

Owner or Client: ELG Investments
Proposed Facility: House Design Flow: 480
Location of Site: Lot 18A
Soil Described By: KMS Others Present: DB
Antecedent Moisture: Weather:

Property Size:
Site LTAR: Int. 0.3 Rep. 0.3
Site Classification: PS

Water Supply: [ ] Public [ ] Community [X] On-Site Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [N] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY: Structure/ Texture	SOIL MORPHOLOGY: Consistence Mineralogy	PROFILE FACTORS: Inclusions	PROFILE FACTORS: Matrix Color	PROFILE FACTORS: Mottles	PROFILE FACTORS: Profile Notes (Restr Hortz, Soil Depth, Coarse Frag, etc...)	Profile Class & LTAR
1	L OK Pit	0 - 5	Mo GR SL	FR ns/np		Lt Br		Gravelly	0.3
		5 - 29	Mo SBK C	FR SS/SP		Red			
		29-51	WK SBK CL	FR SS/SP	F Sap	Red			
2	L 7%	0-6	Mo GR SL	FR ns/np		Lt Br			0.3
		6-40	Mo SBK C	FR SS/SP		Red			
		40-48	WK SBK CL	FR SS/SP	F Sap	Red			
		48-50	MA L Sap	FR SS/SP		Red			
3	L	0-3	Mo GR SL	FR ns/np		Br		Gravelly	0.3-0.325
		3-27	Mo SBK C	FR SS/SP		Red			
		27-48	WK SBK CL	FR SS/SP	C Sap	Red			
4	OK L Pit	0- 4	Mo GR SL	FR ns/np		Lt Br			0.3
		4- 33	Mo SBK C	FR SS/SP		Red			
		33-49	WK SBK CL	FR SS/SP	F Sap	Red			
5									
6									

COMMENTS:

Approved ICHD
2-12-13