105 Thrasher Lane Fast Track Septic System Information

Number of Bedrooms	3
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	360
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
No. Lines	3 (See Table)
Total Linear Feet	200
Trench Width	2' min.
Trench Spacing	8' min.
Trench Depth (low side)	30"
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	90' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	22.5 gpm
Elevation head	Approx. 15.3'
Pressure head	3.0'
Friction head	1.0'
20% Contingency	3.9'
Total Head	23.2'
Pump Requirements	22.5 gpm @ 23.2' of head To be designed by installer.
Maximum Dosing Volume	162 gal -2.2 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. 7.2 min.
Check Valve	Yes
Siphon Break hole	no
Repair System	**LP PPBPS**
Total Linear Feet	230
Repair LTAR	0.3

Approved
MO
10/1/15

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**

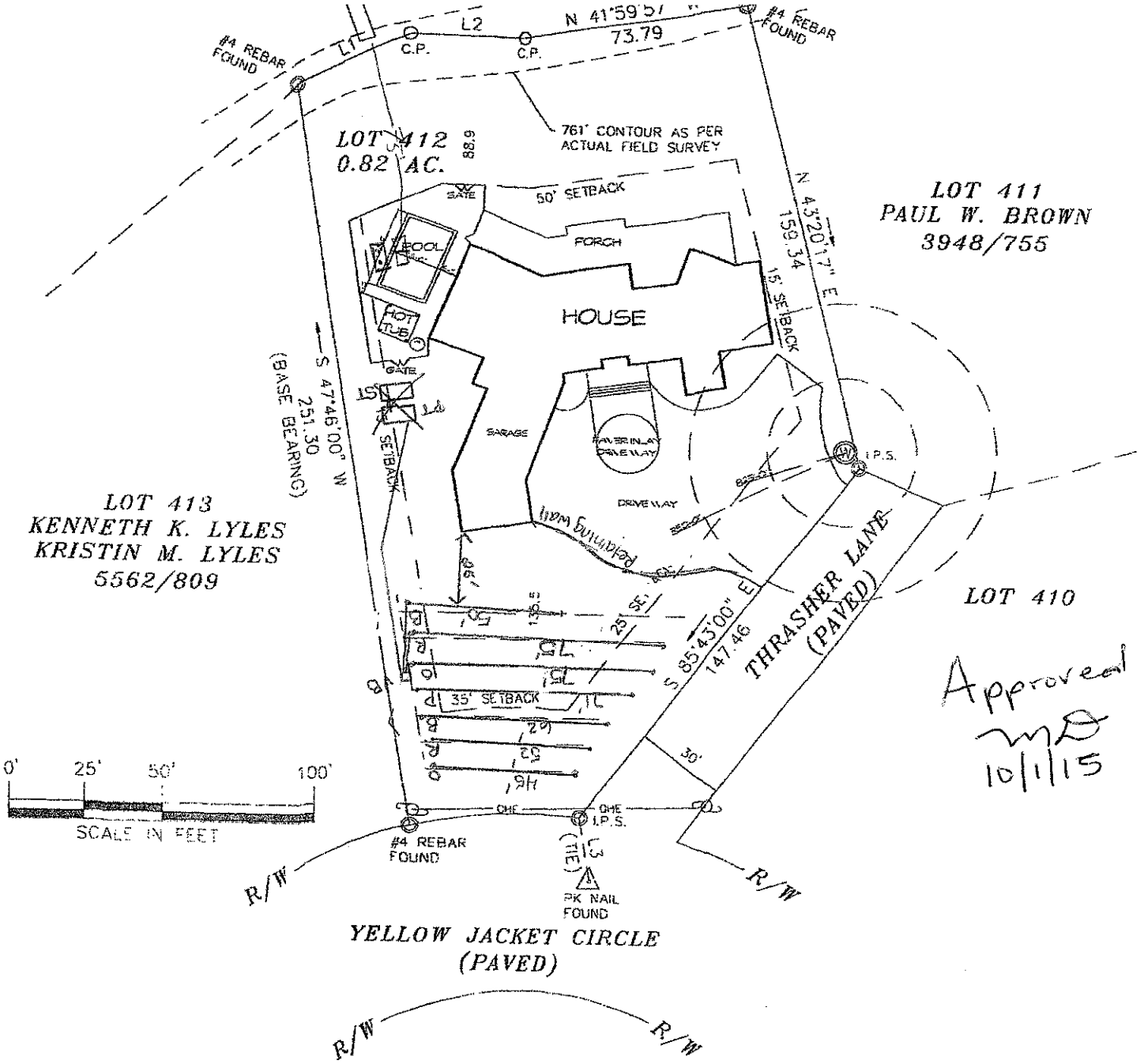
Table 1: Summary of Primary and Repair Nitrification Line Specifications

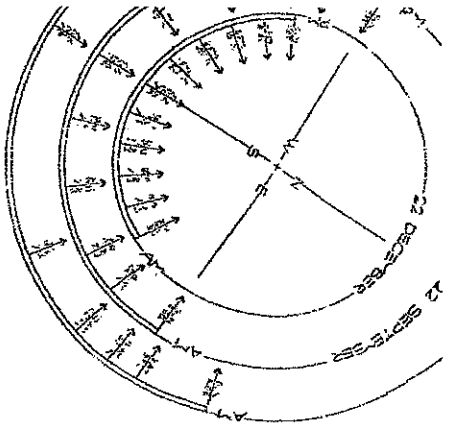
Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	Repair	Orange	LPPPBPS	45	4.2				
2	Repair	Red	LPPPBPS	52					
3	Repair	Blue	LPPPBPS	62					
4	Repair	Pink	LPPPBPS	71					
5	System	Orange	LPPPBPS	75 endfed		17	17	1 per panel	5/32"
6	System	Red	LPPPBPS	75 endfed		17	17	1 per panel	5/32"
7	System	Blue	LPPPBPS	50 endfed		11	11	1 per panel	5/32"
						Total: 45	Total: 45 (1 in each panel turned up)		
				Total System: 200'					
				Total Repair: 230'					

Tank	Red	1000 gal (2 compartment)	13.5
Pump Tank	Red	1000 gal.	
House	Blue		11.3

Approved
10/1/15
MO

Note: **All Rod Readings should be verified by installer prior to installation of system**
Use 2 ft trench width for installation of primary system
Abandon Existing Well
Keep Septic Lines 25 ft from drain behind retaining wall/garage wall





SOLAR CHART

ARROW SHOWS DIRECTION OF SUN ON INDICATED DAY AND HOUR NUMBER INDICATES DEGREE OF INCLINE OF SUN

PROPOSED SITE PLAN

SCALE 1" = 20'-0"

Approved
MD
10/1/15

Project #:
Property ID #:
County: Iredell

SOIL/SITE EVALUATION

Sheet:
Date Evaluated: 3/23/15

Owner or Client: Ted Shultz
Proposed Facility: SFR Design Flow: 480
Location of Site: 105 Thrasher
Soil Described By: KMS Others Present: EH
Antecedent Moisture: Weather:

Property Size: 0.82
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 [ ] 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 Horiz, Soil Depth, Coarse Frag, etc..)	Profile Class & LTAR
A	L	0-5	Mo GR SCL	FR SS/SP		R Br			0.3
		5-43	Mo SBK C	↓		R			
		43-63	WK SBK C	↓	F Gap	R			
B	L	0-5	Mo GR SL	FR NS/NP		R Br			0.3
		5-25	Mo SBK C	FR SS/SP	F Sap	R			
		25-49	WK SBK C	↓	C Sap	R			
C	L	0-5	Mo GR SCL	FR SS/SP		Br R			0.3
		5-35	Mo SBK C	↓		R			
		35-48	WK SBK C	↓	F Sap	R			
3	L 10%	0-10	Mo GR SCL	FR SS/SP		R Br			0.3
		10-33	Mo SBK C	↓		R			
		33-50	WK SBK C	↓	F/C Mica	R			

COMMENTS: