## 1636 Shearers Road Fast Track System Information

**Freedom Homes - July 21, 2014**

| | |
|---|---|
| **Number of Bedrooms** | **3** |
| **Basement or Crawl** | **Crawl Space/Mobile Home** |
| **Design Flow (gpd)** | **360** |
| **Primary System LTAR (gpd/ft2)** | **0.25-0.3** use .25 8-4-14 |
| **Primary System Type** | **Pressure Manifold T&J Panel** |
| No. Lines | 7 @ 34.3 ft. |
| Total Linear Feet | 240 |
| Trench Width | 2' min. |
| Trench Spacing | 8 min. |
| Pump Required | Yes |
| Distribution Device | Pressure Manifold |
| Maintenance Agreement Required | No |
| Length and Diameter of Supply Pipe | ~50' of 2" SCH 40 PVC |
| Flow Rate through the system | 38.5 |
| Elevation head | *Approx. 13' |
| Pressure head | 2.0' |
| Friction head | Approx. 3' |
| 20% Contingency | 3.6' |
| Total Head | 21.6' |
| Pump Requirements | 39 gpm @ 22' of head<br>***Pump to be specified by installer.** |
| Maximum Dosing Volume | 180 gal - 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. 4.6 min. |
| Check Valve | Yes |
| Siphon Break hole | no |
| **Repair System** | **LP PPBPS** |
| Total Linear Feet | 240 |
| Repair Loading Rate | 0.25 |

OK 8-5-14

## 1636 Shearers Road Fast Track System Information

**Freedom Homes - July 21, 2014**

### Table 1: Summary of Primary Drainfield Lines

| Line No. | Use | Line Color | System Type | Line Length (Ft.) | *Elevation (Ft.) | # Panels |
|---|---|---|---|---|---|---|
| 1 | System | red | PM PPBPS | 34.3 | 819.9 | 8 |
| 2 | System | orange | PM PPBPS | 34.3 | 820.4 | 8 |
| 3 | System | blue | PM PPBPS | 34.3 | 820.7 | 8 |
| 4 | System | pink | PM PPBPS | 34.3 | 821.3 | 8 |
| 5 | System | red | PM PPBPS | 34.3 | 821.8 | 8 |
| 6 | System | pink | PM PPBPS | 34.3 | 822.3 | 8 |
| 7 | System | red | PM PPBPS | 34.3 | 822.7 | 8 |
| | | | | Total System: 240' | | Total: 56 |

| | | | |
|---|---|---|---|
| Tank | | 1000 gal (2 compartment) | *Elevation (ft) |
| Pump Tank | | 1000 gal. | approx. 818 |
| House | | Left Rear Corner | 819.7 |

| Manifold Information | |
|---|---|
| Tap Size (In.) | 1/2 |
| Tap Material | SCH 80 PVC |
| No. Taps | 7 |
| Barrel Size (In.) | 4 |
| Barrel Material | SCH 80 PVC |
| Flow (gpm)/Tap | 5.5 |

**NOTES:**

***Elevations must be verified by installer or surveyor before installation and after final tank placement.**

1636 Shearers Road Fast Track System Information
Freedom Homes - July 21, 2014

Table 1: Summary of Primary Drainfield Lines

| Line No. | Use | Line Color | System Type | Line Length (FL) | *Elevation (FL) | # Panels |
|---|---|---|---|---|---|---|
| 1 | System | red | PM PPBPS | 34.3 | 619.9 | 8 |
| 2 | System | orange | PM PPBPS | 34.3 | 620.4 | 8 |
| 3 | System | blue | PM PPBPS | 34.3 | 620.7 | 8 |
| 4 | System | pink | PM PPBPS | 34.3 | 621.3 | 8 |
| 5 | System | red | PM PPBPS | 34.3 | 621.9 | 8 |
| 6 | System | pink | PM PPBPS | 34.3 | 622.3 | 8 |
| 7 | System | red | PM PPBPS | 34.3 | 622.7 | 8 |
| | | | | Total System: 240' | | Total: 56 |

| | | | |
|---|---|---|---|
| Tank | | 1000 gal (2 compartment) | *Elevation (ft) |
| Pump Tank | | 1000 gal. | approx. 616 |
| House | | Left Rear Corner | 618.7 |

STATE OF NORTH C
IREDELL COUNTY

I certify that this map was drawn from an actual survey made under my supervision The unadjusted ratio of precision as calculated is 1': 10,000± Boundaries not surveyed, if any, are noted. Deed descriptions are recorded in Book, as Page shown .Witness my hand and seal this 18th day of JULY, 2014.

Professional Land Surveyor
L-3703

NORTH CAROLINA PROFESSIONAL SEAL L-3703 LAND SURVEYOR JAMES R. HOBBS

7-18-14

LOCATION MAP NOT TO SCALE

NOTES:
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
- AREA BY COORDINATE COMPUTATION.
- PROPERTY SUBJECT TO ANY VALID & ENFORCEABLE EASEMENTS, RESTRICTIONS & RIGHTS OF WAY OF RECORD
- SURVEY IS BASED ON PHYSICAL EVIDENCE AND EXISTING MONUMENT FOUND DURING THE SURVEY.
- PROPERTY CORNER PIPE SIZES AS SHOWN ARE NOMINAL INSIDE DIAMETER.

GRAPHIC SCALE
0 20 40
( IN FEET )
1 inch = 40 ft.

| LINE TABLE | | |
|---|---|---|
| LINE | BEARING | DIST. |
| L1 | S87°22'40"E | 10.00 |
| L2 | S02°37'20"W | 250.63 |

LEGEND
- LINES SURVEYED
- LINES NOT SURVEYED
- TIE LINES
- OVHD DISTRIBUTION LINE (OVERHEAD)
- R/W LIMITS
- ■ #4 REBAR (F)
- ⊡ #4 REBAR (S)
- RETAIL POWER POLE
- O NO MONUMENTATION UNLESS OTHERWISE NOTED
- ℄ CENTERLINE
- ℄ PROPERTY LINE
- (F) DENOTES "FOUND"
- (S) DENOTES "SET"
- NTS DENOTES "NOT TO SCALE"

N 648306.70 FT
E 1464612.84 FT
NAD 83(2011)

NAIL (S) EAST SIDE OF SHEARERS RD.
N 648188.17 FT
E 1464635.98 FT
NAD 83(2011)

NC GRID NAD 83(2011) GPS OBSERVATION (VRS) JULY 14, 2014

| | |
|---|---|
| LNS FILE NO.: | S140508 |
| DWG NO.: | S140508 |
| SURVEYED BY: | J.R. HOBBS |
| DRAWN BY: | N.D. WHITLEY |
| CHECKED BY: | J.R. HOBBS |

TAX ID: 4664-48-5644
FOR SOURCE OF TITLE REFER TO D.BK. 717 PG. 53
FAMILY SUBDIVISION OF PROPERTY OWNED BY
**LAWRENCE R. NOSKER and wife, DEBORAH W. NOSKER**
CODDLE CREEK TOWNSHIP IREDELL COUNTY, N.C.
SCALE: 1" = 40'
BOOK: NA
DATE OF SURVEY: JULY 14, 2014
DATE OF MAPPING: JULY 15, 2014


LNS
SURVEY AND MAP PREPARED BY:
LAKE NORMAN SURVEYING & MAPPING PLLC #P-0190
137 Jennings Road, Suite C
Statesville, North Carolina 28625
(704) 876-4450 Fax (704) 876-4451


SEPTIC PLAN 8-5-14 Bell

5th ME Project 4356-14-064 7-21-14
Site Plan must Accompany WRITTEN REPORT.

DENR/DEH

ON-SITE WASTEWATER SECTION

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

# SOIL/SITE EVALUATION
## *for* ON-SITE WASTEWATER SYSTEM

OWNER: Larry Nesbitt - Freedom Homes
ADDRESS: 1236 Sherrone Rd
PROPOSED FACILITY: 3 bd
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: _____
WATER SUPPLY: • (Private) • Public • (Well) • Spring • Other _____
EVALUATION METHOD: • (Auger Boring) • Pit • Cut

APPLICATION DATE _____
DATE EVALUATED: _____
PROPERTY SIZE: .939
PROPERTY RECORDED: 2014

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 ~5% | 0-6 | wsbk/scl | fr ss/sp | br | | | | |
| | | 6-31 | sbk/cbk | c f: s/p | red f mica flakes, 10yr 6/8 | | | | 1:4 ch-channel |
| | | 31-50 | wsbk/cl | fr ss/sp | c mica flakes (SAP. | | | | PS .3 |
| | | | | | (—) | (50+) | (—) | (—) | |
| 2 | L ~5% | 0-6 | wsbk/scl | fr ss/sp | br | | | | |
| | | 6-44 | msbk/cbk | c f: s/p | f 10yr 7/6 in roots 36-44" | | | | PS |
| | | 44-65 | msbk | cl fr ss/sp | f mica (SAP | | | | .25-.3 |
| | | | | | red c | (65+) | (SAP | | |
| | | | | | (—) | | (—) | (—) | |
| 3 | L ~5% | 0-7 | wsbk scl | fr ss/sp | br | | | | |
| | | 7-44 | msbk/cbk | c f: s/p | red f 10yr 6/8 | | | | |
| | | 44-65+ | wsbk cl | fr ss/sp | red c mica (SAP | | | | PS .25-.3 |
| | | | | | (—) | (—) | (65+) | (—) | |
| 4 | L ~5% | 0-7 | wsbk scl | fr ss/sp | br | | | | |
| | | 7-33 | msbk/cbk | c f: s/p | red f 10yr 5/8 | | | | 1:4 ch-channel |
| | | 33-65+ | sbk/c | fr ss/sp | red-f SAP. c mica | | | | PS .3 |
| | | | | | (—) | (—) | (65+) | (—) | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | TS | TS |
| Site LTAR | .2-.3 | .2-.3 |

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: Rep - must be approved
OTHER(S) PRESENT: by LOWs

COMMENTS: (H-S) 0-7 br scl w sbk fr ss/sp
7-63 red c/d f 10yr 5/8 1:4 ch-channel PS .3
m sbk/abk f: s/p - fr ss/sp

cot 65 OLV
8-5-14 KT