Paid $350.00 Statesville
11-4-13 PH



**MICHAEL ATHANAS & ASSOCIATES**
**LICENSED SOIL SCIENTIST**
**1999 CANDLEWICK DRIVE**
**FORT MILL, S.C. 29715**
**803-802-4403 (office)**
**803-802-4402 (fax)**

**Reference: Data Sheet for The Point, Phase 1B, Lot 3**
**House Footprint:** See plan
**Building Setbacks:** 50' front/lake, 20' side
**Water Source:** Community Well
**Number of Bedrooms:** 5/600 GPD
**Proposed LTAR:** 0.3 GPD/FT2 (initial), 0.275 GPD/FT2 (repair)
**Proposed System Type:** PPBPS
**Proposed Repair System Type:** PPBPS
**Distribution:** Low pressure-CVB
**Flow per Orifice:** 0.59 GPM
**Orifice Size:** 3/16"
**System Flow:** 44.25'
**Dosing Volume:** 270'
**Pump Run Time:** 6.1 minutes
**Elevation Head:** 12.8'
**Friction Head:** 4.5'
**Pressure Head:** 2'
**Total Dynamic Head:** 19.3'
**Supply Line Length:** 115'
**Septic/Pump Tank Size:** 1500/1500 gallons
**Proposed Trench Bottom:** 36"

OK CSK 11/4/13

| Line | Design Length | Actual Length | Elevation |
|---|---|---|---|
| White 1 | | 60' | 3.8' |
| Red 2 | | 54' | 4.3' |
| White 3 | | 40' | 3.8' |
| Orange 4 | | 58' | 4.6' |
| **Blue 5** | **80'-18 panels** | **82'** | **5.7'** |
| **Pink 6** | **85'-19 panels** | **88'** | **6.6'** |
| **White 7** | **85'-19 panels** | **89'** | **7.5'** |
| Red 8 | | 36' | 7.2' |
| **Orange 9** | **85'-19 panels** | **96'** | **8.1'** |

| Line | Design Length | Actual Length | Elevation |
|---|---|---|---|
| White 10 | | 40' | 8.7' |
| Pink 11 | | 47' | 9.6' |
| Blue 12 | | 60' | 10.8' |

**Initial System:** 335' **Repair System:** 395'
**Pump tank:** 13.5' **House corner:** 8.7' **Benchmark:** 2.6'

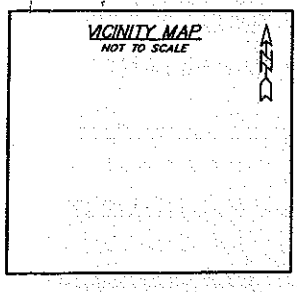
**Comments:**
There is a small gully that will be filled and the driveway will cover the gully.

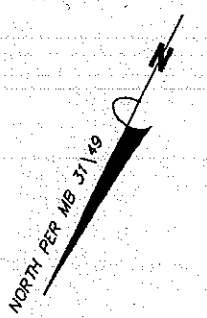
OK 4/4/13

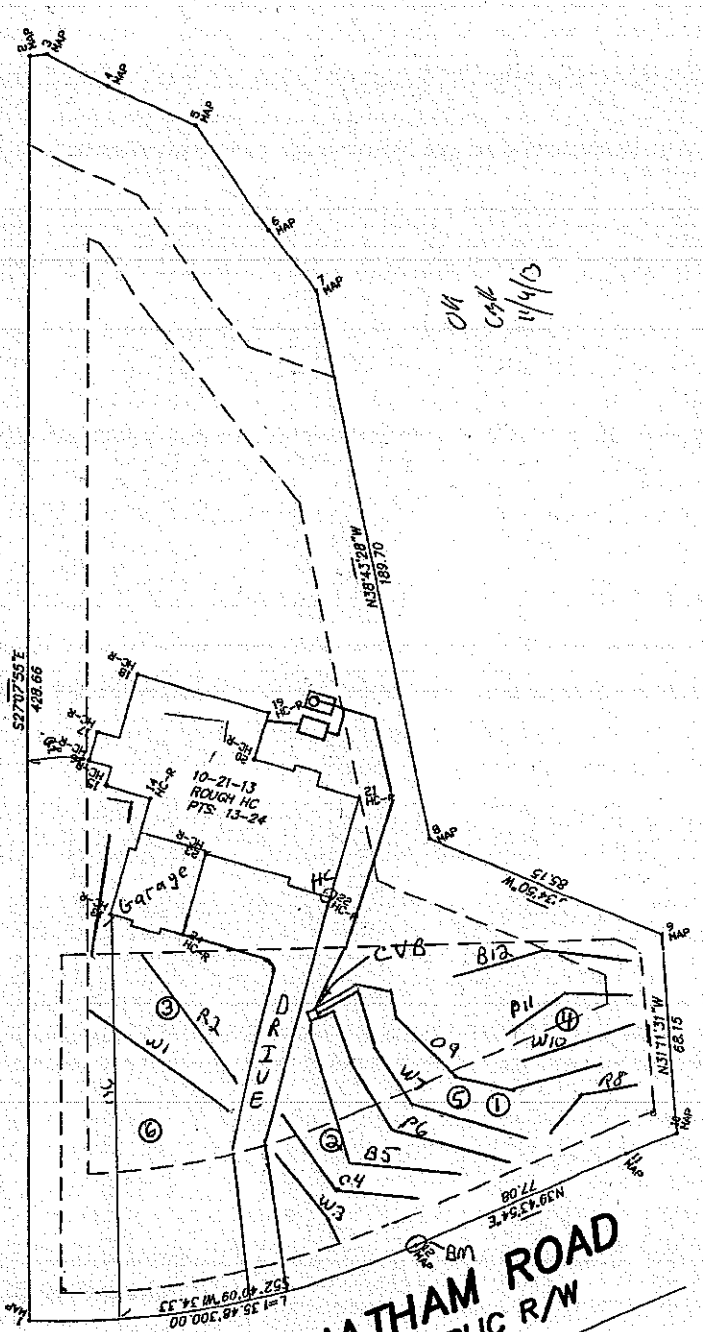
UNDER MY SUPERVISION OF THE PROPERTY SHOWN ON THIS PLAT, AND THAT THE BOUNDARY LINES AND THE IMPROVEMENTS, IF ANY, ARE AS SHOWN HEREON.

SIGNED _____
PROFESSIONAL LAND SURVEYOR

VICINITY MAP
NOT TO SCALE






(2) 0-6 SL 6-24 SCL 24-37 SC 37-48 SCL BC Mgmt (3)

# ROUGH STK SURVEY
OF
## LOT 3, THE POINT PH 1B
MOORESVILLE, IREDELL COUNTY, NORTH CAROLINA

SCALE 1"=50'


CAROLINA SURVEYORS, INC
P.O. BOX 267
PINEVILLE, N.C. 28134
(704) 889-7601
FAX: (704) 889-7614
CERTIFICATE OF AUTHORIZATION
NO: C-1242 SC: 886


SURVEYED FOR _____

MAP RECORDED IN BOOK 31 AT PAGE 49 DEED RECORDED BOOK _____ PAGE _____

DRAWN BY HW FIELD WORK _____ FIELD BOOK # _____

2013\HC\Point Ph1b
2013\P\Point Ph1b

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 56 3505 2580
COUNTY: Iredell

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

OWNER: DAN GOETZ
ADDRESS: 1458 BEAVERY SCHOOL RD MOORESVILLE
APPLICATION DATE 11/4
DATE EVALUATED: 11/6
PROPOSED FACILITY: _5 bedroom PROPOSED DESIGN FLOW (.1949): _600 GPD
PROPERTY SIZE: 1.29 AC
LOCATION OF SITE: Point 1B Lot 3
PROPERTY RECORDED: Y
WATER SUPPLY: Private / Ξ Public Ξ Well Spring Other
EVALUATION METHOD: Ξ Auger Boring Pit Cut TYPE OF WASTEWATER: Ξ Sewage Industrial Process Mixed

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) | | OTHER PROFILE FACTORS | | | | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| | | | .1941 STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | |
| 1 | LS 3% | 0-43 | R C SBK | FR SS SP | | 43" | | | PS 0.3 |
| | | 43- | AR | | | | | | |
| 2 | LS 9% | 0-6 | BrR SCL WSBK | FR SS SP | | 48" | | | PS 0.3 |
| | | 6-48 | R C SBK | FR SS SP | | | | | |
| 3 | LS 3% | 0-44 | R C SBK | FR SS SP | | 48" | | | PS 0.3 |
| | | 44-48 | R CL WSBK | FR SS SP | | | | | Soils OK JF 11/4/13 |
| 4 | LS 5% | 0-40 | R C SBK | FR SS SP | | 48" | Few SAP INCL | | PS 0.3 |
| | | 4-48 | R CL WSBK | FR SS SP | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | 670 FT2 | 728 FT2 |
| System Type(s) | PPBPS | PPBPS |
| Site LTAR | 0.3 | 0.275 |

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: _M A & Associates
OTHER(S) PRESENT:

COMMENTS:

# SOIL/SITE EVALUATION

*(Continuation Sheet)*

*Sheet* 2 *of* 2

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: ______
DATE OF EVALUATION: ______
COUNTY: ______

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) | | OTHER PROFILE FACTORS | | | | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| | | | .1941 STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | |
| 5 | LS 3% | 0-10 | R SCL WSBK | FR SS SP | | 48" | | | PS 0.3 |
| | | 10-48 | R C SBK | FR SS SP | | | | | |
| 6 | LS 5% | 0-6 | R SCL WSBK | FR SS SP | Few Mn/organic | 48" | | | PS 0.275 |
| | | 6-48 | R C SBK | FR SS SP | | | | | |
| | | | | | | | | | Soils OK CBK 11/14/13 |
| | | | | | | | | | |
| | | | | | | | | | |

COMMENTS: ______