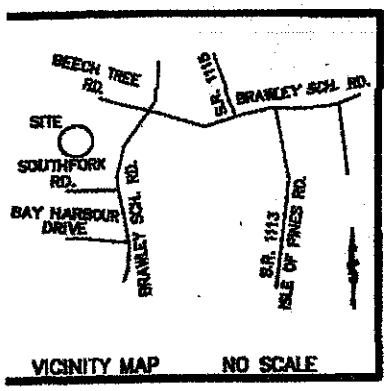
plat book 47, page 12, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Carolina Chapter 89C.

my hand and seal on the 4, day of JUNE, A.D. 20 15.

WILLIAM M. ALLEN, PLS

NORTH CAROLINA PROFESSIONAL SEAL L3499 LAND SURVEYOR WILLIAM M. ALLEN




NOTE - SITE PLAN MUST ACCOMPANY REMINGTON SOIL CONSULTING WRITTEN REPORT DATED 1-24-15

REVISED FOR NEIGHBOR WELL 10-7-15

MCKENDREE RD. (60' PUBLIC R\W)

COMMON OPEN SPACE

66.27
N69°15'55"E
L=66.28'
R=1039.67

N68°00'45"E 30.81

N67°26'20"E 77.76

ADD. REPAIR

Approx. Hand Auger Boring Location

50' REAR SETBACK & 50' NO CLEAR ZONE

692'

095'

100'R

100'R

100'R

Approx. Backhoe Pit Location

Pressure Manifold

2005 Backhoe Pit

2" Sch40 PVC Supply Line >50' From Well

275.29

S09°24'40"E

LOT 434 100'R 0.999 AC.

20' SIDE SETBACK

20' PIPE SETBACK

20'x40' Pool

DECK FLOOR ±12.0'

KINGSTON PLAN

GARAGE

52.1

30.0

50' FRONT SETBACK

34.0

300.58

N49°46'39"W

LOT 435
DAVID J. JUNEAU
2086\2376

LOT 433
WILLIAM F. WALSH
2055\662

Neighbor Well

*Rod Reading

Approved 10/9/15 MD

1" = 50'

L=131.23'
R=700.00
131.04
S76°34'00"W

BAYBERRY CREEK CIR. (50' PUBLIC R\W)

RECEIVED OCT 8 - 2015

HARRIS CONST. GROUP SEPTIC PLAN 1-24-15

LEGEND
P.P. = POWER POLE
□ = POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET

## The Farms Lot 434 Fast Track System Information (6-24-15) Pg 1 of 2

**Harris Construction Group -- Revised for neighboring well 10-7-15**

| | |
|---|---|
| **Number of Bedrooms** | **4** |
| **Basement or Crawl** | **Crawl** |
| **Design Flow (gpd)** | **480** |
| **Primary System LTAR (gpd/ft2)** | **0.3** |
| **Primary System Type** | **25% Reduction** |
| No. Lines | 4 at 100 ft. (see site plan) |
| Total Linear Feet | 400 ft |
| Trench Width | 3' min. |
| Trench Spacing | 9' min. |
| Pump Required | Yes |
| Distribution Device | Pressure Manifold |
| Maintenance Agreement Required | No |
| Length and Diameter of Supply Pipe | ~120' of 2" SCH 40 PVC |
| Flow Rate through the system | 22 gpm |
| Elevation head | *Approx. 16' |
| Pressure head | 2.0' |
| Friction head | Approx. 2' |
| 20% Contingency | 4' |
| Total Head | 24' |
| Pump Requirements | 22 gpm @ 24' of head |

Approved MD 10/19/15

***To be designed by installer after final tank placement.**

| | |
|---|---|
| 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. 10.9 min. |
| Check Valve | Yes |
| Siphon Break hole | no |
| **Repair System** | **LP PPBPS** |
| Total Linear Feet | 289' shown *267' Required* |
| Repair Loading Rate | 0.3 |

## The Farms Lot 434 Fast Track System Information (6-24-15) Pg 2 of 2

**Harris Construction Group -- Revised for neighboring well 10-7-15**

Approved MD 10/19/15

### Table: Summary of Primary Nitrification Lines

| Line No. | Use | Line Color | System Type | Line Length (Ft.) | *Rod Reading (Ft.) |
|---|---|---|---|---|---|
| 1 | System | red | 25% Reduction | 100 | 8.5 |
| 1 | System | orange | 25% Reduction | 100 | 7.5 |
| 2 | System | blue | 25% Reduction | 100 | 6.6 |
| 3 | System | pink | 25% Reduction | 100 | 5.6 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | Total System: 400' | |
| | | | | | |

| | | | |
|---|---|---|---|
| Tank | white | 1500 gal (2 compartment) | *Rod Reading (ft) |
| Pump Tank | white | 1000 gal. | 13.9 |
| House | | Left Rear Deck Floor | 12.0 |

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

**NOTES:**

* Elevations must be verified by installer at installation and final tank placement.

Install system per ICHD permits and policies.
Use Trench Depth on ICHD Permit
Fast Track System information tables must accompany Penninger Soil Consulting written report dated June 24, 2015.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 2
PROPERTY ID #:
COUNTY:

# SOIL/SITE EVALUATION
## *for* ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: Harris Coast Group
ADDRESS: 183 Bay Breeze
PROPOSED FACILITY: House
LOCATION OF SITE: Farms Lot 434

APPLICATION DATE: 6-24-15
DATE EVALUATED: 6-18-15
PROPOSED DESIGN FLOW (.1949): 480
PROPERTY SIZE: ~999 Ac.
PROPERTY RECORDED: 2005

WATER SUPPLY: Private (Public) Well Spring Other
EVALUATION METHOD: (Auger Boring) Pit Cut
TYPE OF WASTEWATER: (Sewage) Industrial Process Mixed

APPROVED JUN 30 2015

| 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 ~10 | 0-6 | wSSK SL | fr SS/NP | br | | | | PS -.3 |
| | | 6-60 | mSBK C-L | fr SS/SP | red f-c ind | SHP, hall | | | chroma: |
| | | | | | hued pm: | gray 1-4 | | | |
| | | ~~Fill not in sys. or repaired~~ | | | color | | | | |
| | | | OVERALL | < 30% | SAC/P | (48) | (0) | (0) | |
| 2 | L ~12 | 0-5 | WSSK SL | fr SS/SP | br | | | | PS |
| | | 5-35 | mSBK C | fr S/P | red | | | | |
| | | 35-49 | m-wSBK c-cl | fr SS | | f-c ind | SHP | | |
| | | | | | | (48) | (0) | (0) | pm. -.3 |
| | | Actual pit | - Dry | | (0) | | | | |
| 3 | L ~10 | 0-4 | wSBK/SAD | fr SS/SW | br | | | | PS -.3 |
| | | 4-20 | mSBK C | fr S/P | red - | upper few | | | |
| | | 20-48 | wSBK cl | fr SS/SP | f-c | inches hard | | | |
| | | | | | | (48) | SHP (0) | (0) | |
| 4 | L ~10 | 0-6 | wSBK SL | fr SS/SP | br | | | | PS -.3 |
| | | 6-23 | mSBK C | fr SS/SP | red | | | | |
| | | 23-48 | wSBK cl | fr SS/SP | mot | f-c | f SAP. | | |
| | | | | | (0) | (48) | (0) | (0) | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | 75 | 75 |
| System Type(s) | 24" | T/S |
| Site LTAR | .3 | .3 |

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: PGP
OTHER(S) PRESENT: must be revised and approved by LHD

COMMENTS:

# SOIL/SITE EVALUATION

*(Continuation Sheet-Complete all field in full)*

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #:
DATE OF EVALUATION: 6-18-13
COUNTY:

Lot 434 Farms

| 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 | L 5-10 | 0-6 | wsbk-cl | fr ss/sp | rd br | | | | PS .3 |
| | | 6-20 | msbk-c | fr ss/sp | rd | | | | |
| | | 20-48 | wsbk cl | fr ss/sp | rd | f sap'ind | | | |
| | | | | | – | 42 | – | – | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

COMMENTS:

**Penninger Soil Consulting, PLLC**
**595 JM Penninger Road**
**Lexington, NC 27292**
**Ph: 704-996-6330 Email: pgpenninger@gmail.com**

June 24, 2015

Harris Construction Group
9935D Rey Road, #210
Charlotte, North Carolina 28277

APPROVED JUN 30 2015

Attention: Mr. Bob Volles

**Reference:** **Technical Assistance with Septic Permitting**
Lot 434 The Farms Subdivision
Iredell County, North Carolina
Project No. 15-107

Dear Mr. Volles:

Penninger Soil Consulting, PLLC has provided technical assistance to obtain a possible new, 4-bedroom septic system Improvement Permit on the above referenced lot from the Iredell County Health Department (ICHD). The technical assistance was performed in general accordance with our written proposal dated June 15, 2015.

Lot 434 was issued a 4-bedroom 25 Percent Reduction, Pressure Manifold Distribution Improvement Permit by the ICHD in 2005. This permit has expired and you have requested Penninger Soil Consulting, PLLC to assist with a obtaining a new Fast Track ICHD Improvement Permit for a similar system and similar house pad.

We described five pits and hand auger borings in the proposed septic area and flagged a proposed 25 Percent Reduction, Pressure Manifold Distribution primary system and a T&J Panel repair area as shown on the attached site plan. The proposed system is in the same general area as the 2005 permitted system and utilizes the same Long Term Acceptance Rate approved in 2005. The site plan shows a possible future pool area if your home buyers want a pool. Your surveyor staked the property corners and the lot lines.

Once the septic area is permitted, it should be fenced off for protection during home construction. Access to the lot should only be by the proposed drive. There shall not be cuts of 2 feet or greater within 15 feet of any part of the permitted septic system. The future pool should be at least 15 feet from the septic and pump tanks and the drainfield.

Penninger Soil Consulting, PLLC appreciates the opportunity to provide these services to you. The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist you with the Fast Track site evaluation. The ICHD may show any

changes or modifications they want to the proposed system on the ICHD Permits or attached site plan. The ICHD must approve each lot and only the ICHD can issue these permits. The ICHD should verify all soils and system specifications, required setbacks, and whether a professional engineer plan is required before permitting and/or septic system installation. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance.

If you have any questions or require additional information please contact us at your convenience.

Sincerely,

**Penninger Soil Consulting, PLLC**

Paul G. Penninger, L.S.S.
Soil Scientist

Attachments:

1. Septic Permit Application and Zoning Permit
2. Proposed Site Plan and System Information
3. 2005 ICHD Septic Permit

C:\Users\Paul G. Penninger\Documents\2015 Projects\15-107 Harris Construction Group - Farms 434 and 379\Farms 434\Harris Const Group The Farms Lot 434 FT Summary Letter.doc

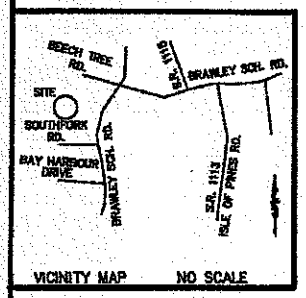
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DON ALLEN & ASSOCIATES, P.A
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Commercial * Residential * Mortgage Surveys * Multi-Family
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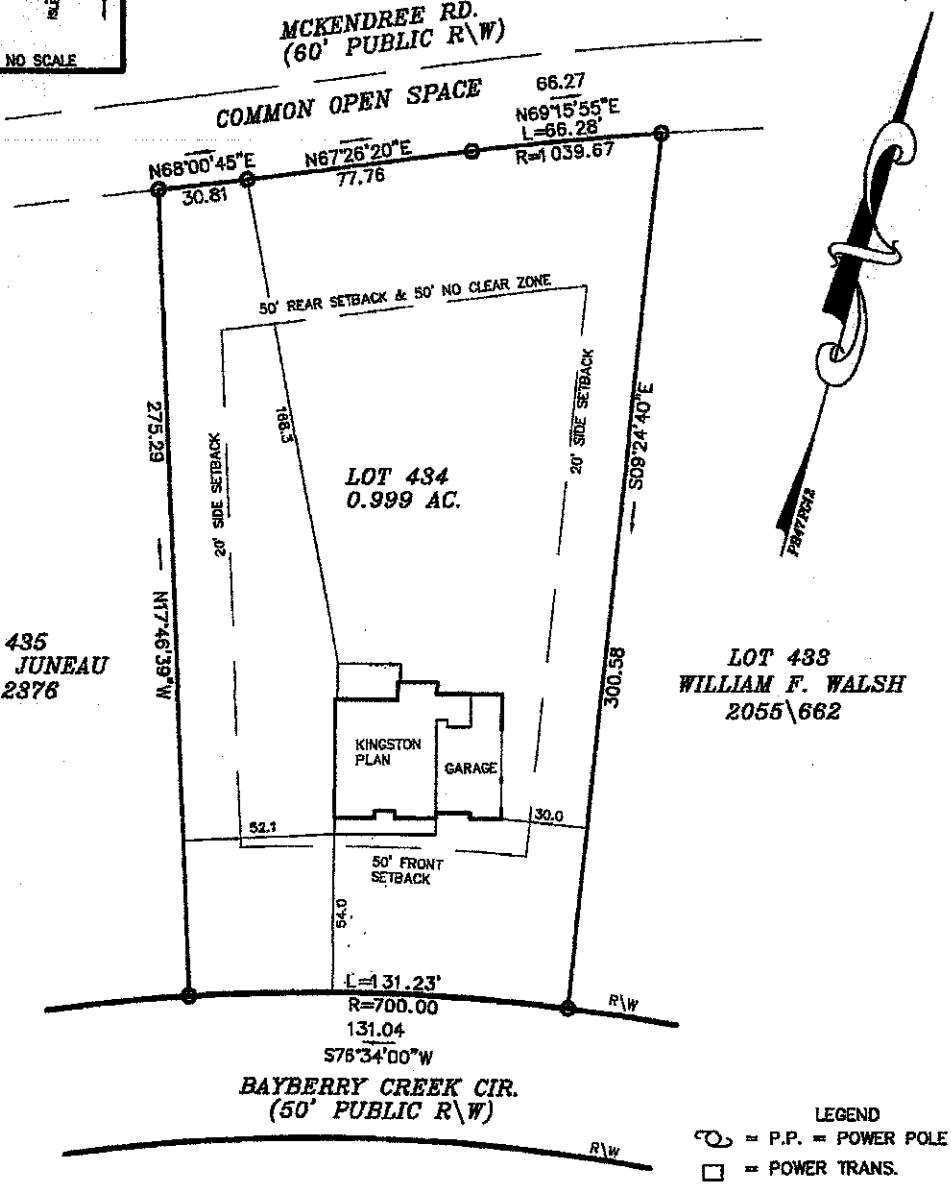
I, certify that this map was drawn under my supervision from an actual survey made under my supervision recorded in deed book 1803, page 1109, and/or plat book 47, page 12, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Carolina Chapter 89C.

my hand and seal on the 4, day of JUNE, A.D. 20 15.

WILLIAM M. ALLEN, PLS

NORTH CAROLINA PROFESSIONAL SEAL L3499 LAND SURVEYOR WILLIAM M. ALLEN




LEGEND
- P.P. = POWER POLE
- □ = POWER TRANS.
- E.I.P. = EXISTING IRON FOUND
- I.P.S. = #4 REBAR SET
- R/W = RIGHT-OF-WAY

0' 25' 50' 100'
SCALE IN FEET

# PLOT PLAN SURVEY

OF
183 BAYBERRY CREEK CIR.
LOT 434 THE FARMS PHASE 3 MAP 3

SCALE 1" = 50'
DAVIDSON TWSP., IREDELL CO., N.C.
ACQUIRED BY: CYRAS CUSTOM HOMES

FIELD BOOK:
FILE: FARMS 434
DC FILE:
TAX MAP NO: 4626287822