ROLLANS *Soil & Environmental Services, PA.*

P.O. Box 832, Mooresville, NC 28115 Phone: (704) 746-5046 Fax: (704) 278-0989

Ashley Rollans, *NC Licensed Soil Scientist, Certified Septic Installer, Certified Wastewater Operator & Certified Septic Inspector* **Contacts**: *704.746.5046*
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Project Number: *01-1953*
Date: *10/6/14*

FRIENDSHIP HOLDING CORP.
Attn: *Karen Schulz*
Email: kschulz@yadtel.net

Re: On-Site Wastewater Evaluation for an expansion of an Existing Service Station (Tomlin Mill One Stop) to accommodate Food Service on Parcels (4749934637, 4749932604 & 4749932446) located on Tomlin Mill Road, Iredell County, NC.

Dear Ms. Schulz,

Rollans Soil & Environmental Services, PA has performed a Preliminary Soil Evaluation on the above mentioned property in Iredell County, NC. The purpose of the evaluation was to determine available space requirement for an expansion of an existing system for the Tomlin Mill One Stop Service Station to incorporate food service. The evaluation was performed in August, 2014.

The findings from our evaluation are illustrated on the attached Site Plan. Additional documentation of the soil evaluation is detailed in the NCDENR for Soil Profile Descriptions.

Soil/Site Suitability

Six soil borings (B1 – B6) were performed throughout the property to determine the overall soil suitability for an onsite wastewater system installation. Of these six boring all were found to be provisionally suitable for Conventional, Modified Conventional and/or Accepted subsurface wastewater systems. These soil profile descriptions are most similar to the Cecil/Pacolet Soil Series'. Soil LTAR is 0.275 – 0.3gpd/ft2 but recommended LTAR is 0.25gpd/ft2 due to the restaurant strength waste.

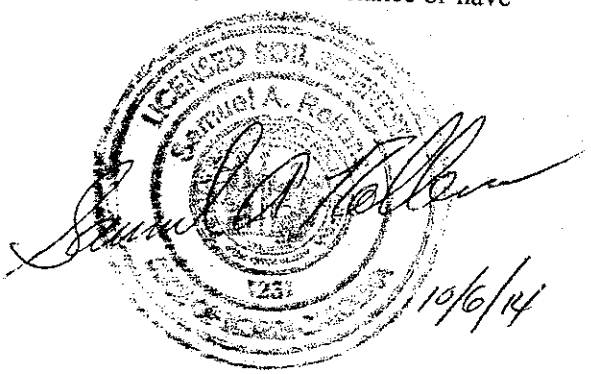
Available Space Requirement

The existing Conventional System (Permit#: 077039; 6 lines totaling 555') is proposed to be the receiver of the restaurant waste (reduced flow = 132 GPD). **This system is adequately sized to support the proposed reduced flow.** The existing Accepted System (Permit#: 147800; Lines 1 - 5 @~105' or 525') is to receive the domestic waste. We laid out two additional 105' lines (6 & 7) for a total of 735'. This will accommodate the proposed reduced flow (724.2 GPD) from the facility. We are proposing to add these lines using Accepted Trench Technology. Soil Borings 1 & 2 are located in this area. Please note that lines 8 & 9 are additional repair lines for that drainfield. A full repair (Lines 8 – 17) has also been demonstrated where Soil Borings 3 – 6 are located. The total linear footage of proposed Conventional or Accepted Trenches in this area

is 1302. This repair area will support the proposed combined reduced flow of 856.2 GPD at an LTAR of 0.25gpd/ft2.

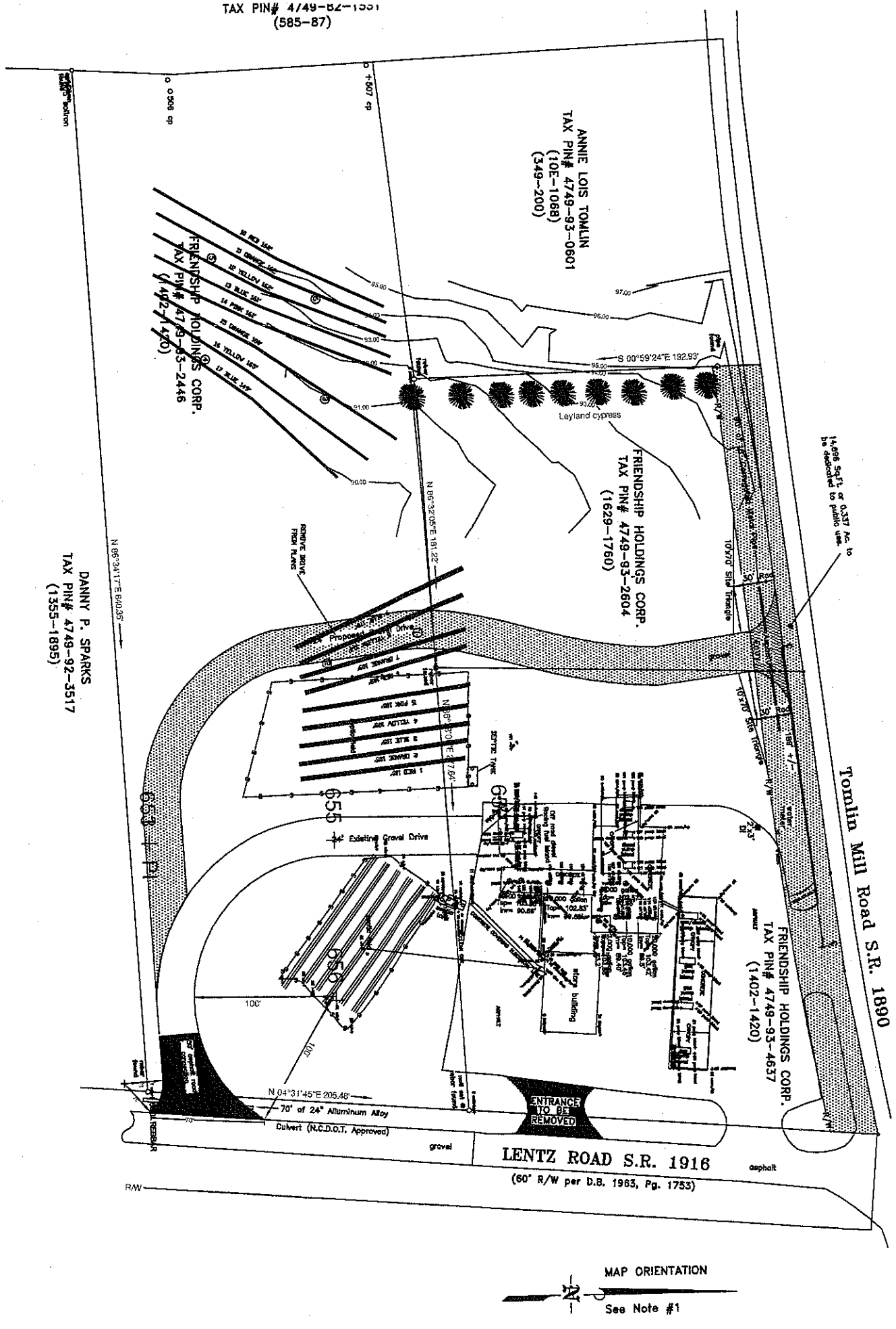
We have determined that there is sufficient available space to support the proposed flows from the facility that was provided by Piedmont Design Associates, PA. The proposed flow from the facility will be split based upon the strength of the waste and treated utilizing two separate drainfields as previously mentioned. There is also a full repair demonstrated for the combined waste generated by the facility that has a recommended LTAR of 0.25gpd/ft2. Piedmont Design Associates, PA will provide detailed design plans illustrating the modifications required to divide the restaurant strength and domestic strength wastestreams as well as all system component modifications.

Rollans Soil & Environmental Services, PA has appreciates your business and looks forward to working with you in the future. Please let us know if you need any further assistance or have questions in regards to this project.



Thank you
S. Ashley Rollans
NC Licensed Soil Scientist #1231
NC Certified Operator
NC Certified Septic Installer
NC Certified Septic Inspector

See Attached: *Site Plan*
Soil Profile Descriptions


TAX PIN# 4749-82-1551
(585-87)
ANNIE LOIS TOMLIN
TAX PIN# 4749-93-0601
(10E-1068)
(349-200)
FRIENDSHIP HOLDINGS CORP.
TAX PIN# 4749-93-2446
(1402-1420)
FRIENDSHIP HOLDINGS CORP.
TAX PIN# 4749-93-2604
(1629-1760)
FRIENDSHIP HOLDINGS CORP.
TAX PIN# 4749-93-4637
(1402-1420)
DANNY P. SPARKS
TAX PIN# 4749-92-3517
(1355-1895)
S 00°59'24"E 192.93'
N 86°32'05"E 181.22'
N 86°34'17"E 640.35'
N 04°31'45"E 205.48'
Leyland cypress
14,696 Sq.Ft. or 0.337 Ac. to be dedicated to public use.
10'x70' Site Triangle
Proposed Gravel Drive
Existing Gravel Drive
SEPTIC TANK
655
653
651
100'
70' of 24" Aluminum Alloy Culvert (N.C.D.O.T. Approved)
ENTRANCE TO BE REMOVED
Tomlin Mill Road S.R. 1890
LENTZ ROAD S.R. 1916
(60' R/W per D.B. 1963, Pg. 1753)
gravel
asphalt
R/W
MAP ORIENTATION
See Note #1