

15110 PAVILION LOOP DR

1/11/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

S&ME

GWS Septic System Design Review

GWS File #: 6895B **Approved** **Disapproved**

Design Review: TCT 10-8-07 ☒ ☐

Field Review: TRW 10/12/07 ☒ ☐

*Projects are not considered **"APPROVED" until both** sections above are completed and indicate an **APPROVED status.***

September 27, 2007

Mr. Rick Jasinski
Simonini Builders
1910 South Boulevard, Suite 200
Charlotte, North Carolina 28203

Reference: **Request for a Septic Improvement Permit for Lot 15 at The Pavilion**
Mecklenburg County Health Department (MCHD) File #6895B

Dear Mr. Jasinski,

Attached is the request for the Improvement Permit for the above referenced lot. We are requesting an Improvement Permit for a 5 bedroom house. We are proposing a LPP PPBPS system located off-site on septic field easement 15A and a subsurface drip repair on-site. Mr. Bill Marlin, LSS with the MCHD has evaluated the soils (see attached MCHD soil sheets) and approved the proposed septic area on easement 15A at a 0.3 gpd/sqft LTAR, and the drip repair area at a 0.125 gpd/sqft LTAR. S&ME, Inc. has flagged the primary system on the proposed septic area. The attached sketch and specifications are not an Improvement Permit and are intended only to assist the MCHD in permitting the referenced lot at The Pavilion.

This lot will utilize an off-site septic area for the septic system drainfield. Simonini has installed the pipe from the lot to the septic area easement in the recorded septic supply line easement. The pipe is 3 inch SCH 40 PVC, and was installed along with the pipes for the other off-site lots.

A building permit cannot be issued until the MCHD issues an Authorization to Construct (ATC). The buyer will apply for the ATC. **No grading shall take place on the septic area prior to obtaining the ATC from the MCHD.**

The proposed system is a TYPE IV and will require a contract with a Certified Operator to supply maintenance services for the septic system. Please review the attached system sketch and design specifications for the Improvement Permit. If necessary, the MCHD may add comments to the site plan or specifications. Please call in you have and questions or comments.

Sincerely,

S&ME, Inc.

Paul G. Penninger, LSS
Licensed Soil Scientist

Rob Willcox, LSS
Natural Resources Department Manager

Attachments:
1. System Specifications
2. Site Plan
3. MCHD Soil Evaluation

Copy: Mr. Philo Walker, R.S.
MCHD

Design Specifications for Lot 15 at The Pavilion
MCHD File # 6895B

√ TCT
10-8-07

Daily Design Flow:	600 gpd
Number Bedrooms:	5 bdr.
Basement or Crawlspace:	Basement
Septic Tank Size:	1500 gal
Pump Tank Size:	1500 gal
Primary System Loading Rate:	0.3 gpd/ft^2
Primary System:	LP PPBPS
Number and length of laterals:	4 @ 55 ft. 1 @ 50 ft. 1 @ 64 ft.
Total ft. of primary system:	334 ft.
Number of T&J Panels:	13 per 55 ft. line, 12 per 50 ft. line, 15 per 64 ft. line, for a total of 79 panels
Flow Rate through system:	39.5 gpm – use 5/32 in. holes with 3 ft. head pressure
Pump Requirements:	to be calculated by installer when specific house and pump tank locations are available
Dosing Volume:	approx. 284 gal. – (3.6 gal per panel)*
Depth of effluent pumped per dose:	calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Check Valve:	yes
Siphon break hole:	yes
Repair System Loading Rate:	0.125 gpd/ft^2
Repair System:	Subsurface Drip
Total ft. of repair	approx. 11,000 ft^2 (4800 ft^2 required)

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

On-site Wastewater Section

Property ID: 019-243-10
Lot #: 15
File #: 6895B
AppID: 2410

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: The Pavilion of Huntersville
Address: 1910 S. Blvd., Ste 200, Charlotte, N. C. 28203
Proposed Facility: Residence Design Flow (.1949): 600gpd
Location of Site: Pavilion Loop Drive
Water Supply: [ ] Public [ ] Individual [x] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

Applicant: P. Penninger, S & ME
Date Evaluated: 9/25/07
Property Size: 1.7a
Property Recorded:

Profile Pit	Landscape Position / Slope	Horizon Depth (IN)	SOIL/SITE FACTORS: Soil Texture	Structure / Consistence / Mineralogy	PROFILE FACTORS: Restrictive Horizon	Depth (IN)	Wetness	Restrictive Horizon	Soil Group / Max. Allowable LTAR
1	LS, 10	0-4	GR/SCL	FR/SEXP/SS/SP	>27" TO SOIL WETNESS	27	N/A	NONE	US, IV .25GPD/FT²
		4-22	SBK/SC	FI/SEXP/S/P					
		22-27	SBK/SCL	FR/SEXP/SS/SP					
2	"	0-6	GR/SCL	"	>28" TO SOIL WETNESS	28	"	"	US, IV .2GPD/FT²
		6-28	SBK/C	FI/SEXP/S/P					
3	"	0-6	GR/SCL	FR/SEXP/SS/SP	>33" TO SOIL WETNESS	33	"	"	US, IV .225GPD/FT²
		6-33	SBK/SC	FI/SEXP/S/P					
A	LS, 8	0-5	GR/SCL	FR/SEXP/SS/SP	>22" TO SOIL WETNESS	22	"	"	US, IV .125GPD/FT²
		5-22	SBK/C	FI/SEXP/S/P					
4	"	0-7	GR/SCL	FR/SEXP/SS/SP	>35" TO SOIL WETNESS	35	"	"	US, IV .25GPD/FT²
		7-35	SBK/SC	FI/SEXP/S/P					
					LTAR .25GPD/FT²				
OFF-SITE AREA									
1-A	LS, 5	0-22	FILL		>64" TO SOIL WETNESS	64	N/A	NONE	PS, IV .3GPD/FT
		22-31	SBK/C	FI/SEXP/S/P					
		31-64	SBK/CL	FR/SEXP/SS/SP					
2-A	"	0-18	FILL		>63" TO SOIL WETNESS	63	"	"	"
		18-36	SBK/C	FI/SEXP/S/P					
		36-63	SBK/CL	FR/SEXP/SS/SP					

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR		

Other Factors (.1946):

Soil Evaluation By: W. R. Martin, LSS, 9/27/2007. W. R. Martin

Others Present:

Site Classification (.1948):

Site Evaluation By:

Others Present:

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

File #: 6895B

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM CONTINUED

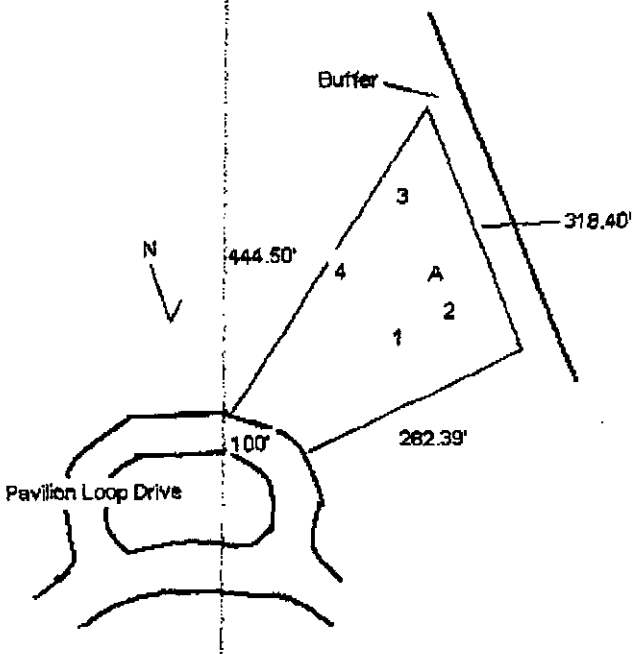
PROFILE I.D. #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY 1941 Structure/ Texture	SOIL MORPHOLOGY 1941 Consistence, Mineralogy	DIFFERENTIAL PROFILE FACTORS 1942 Soil Wetness Color	1943 Soil Depth (IN.)	1955 Saprolite Class	1944 Restr. Horiz	Soil Profile Class & LTAR
3A	LS, 5	0-14	FILL		>63" TO SOIL WETNESS	63	N/A	NONE	PS, IV .3GPD/FT^2
		14-33	SBK/C	FI/SEXP/S/P					
		33-63	SBK/CL	FR/SEXP/SS/SP					
4A	"	0-37	SBK/C	FI/SEXP/S/P	>64" TO SOIL WETNESS	64	"	"	"
		37-64	SBK/CL	FR/SEXP/SS/SP					
					LTAR-OFF-SITE .3GPD/FT^2				

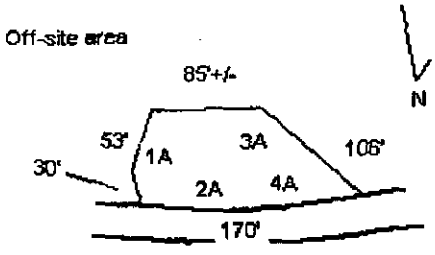
COMMENTS:
100% repair

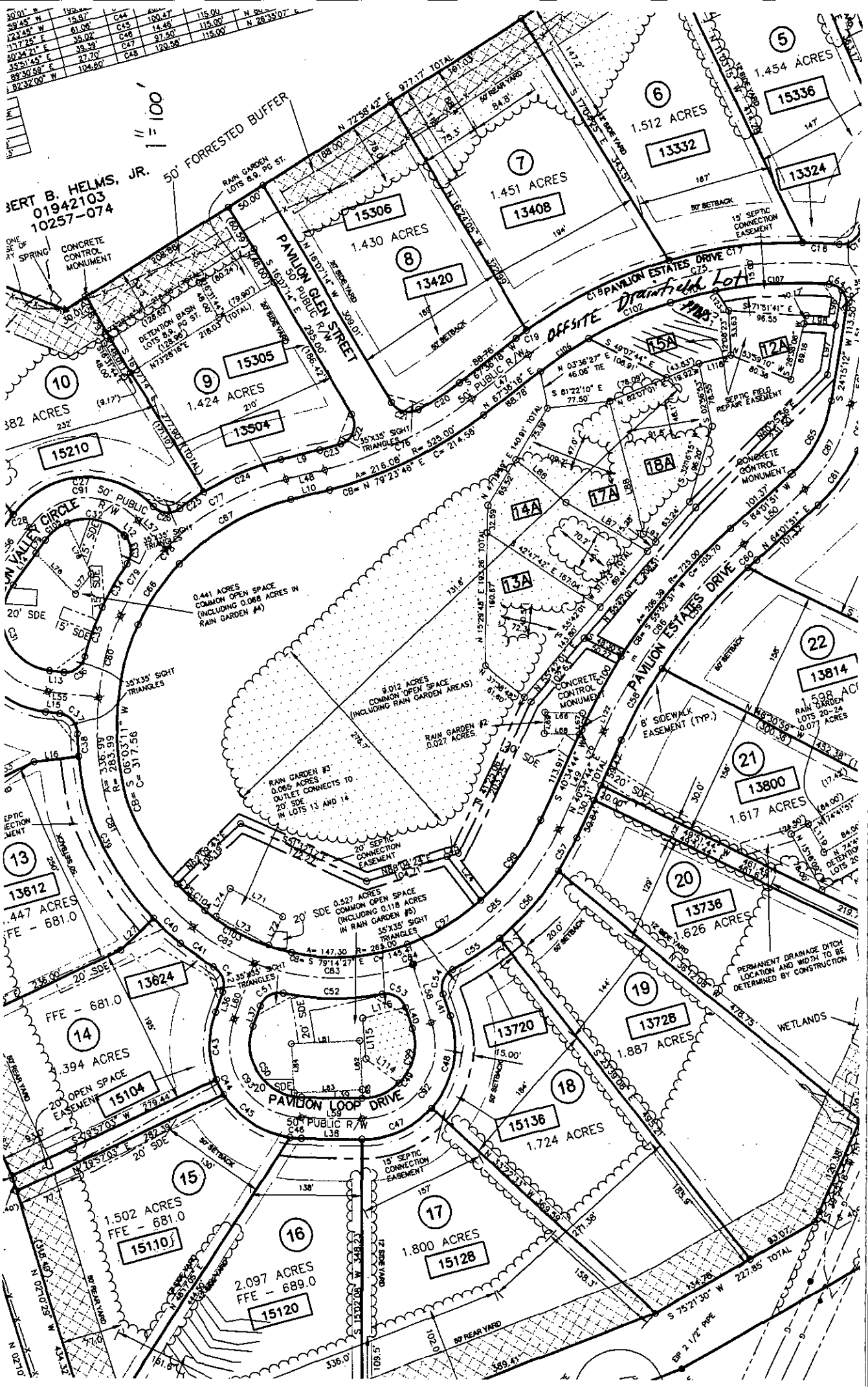
Landscape Position	Group	Texture	.1995 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	SI-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SICL-Silty Clay Loam		PR-Prismatic
T-Terrace				
FP-Flood Plain		CL-Clay Loam		
		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

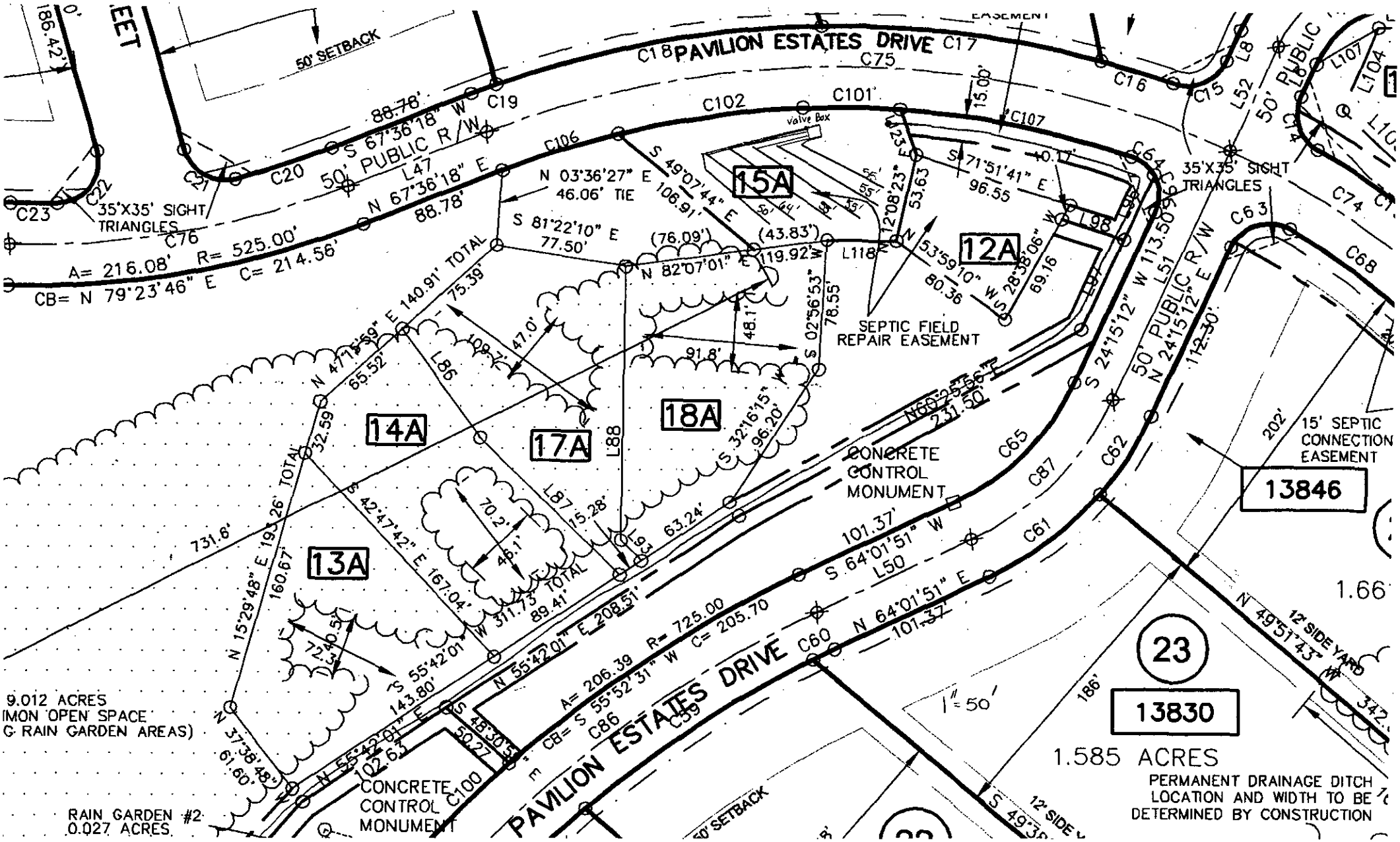
Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations

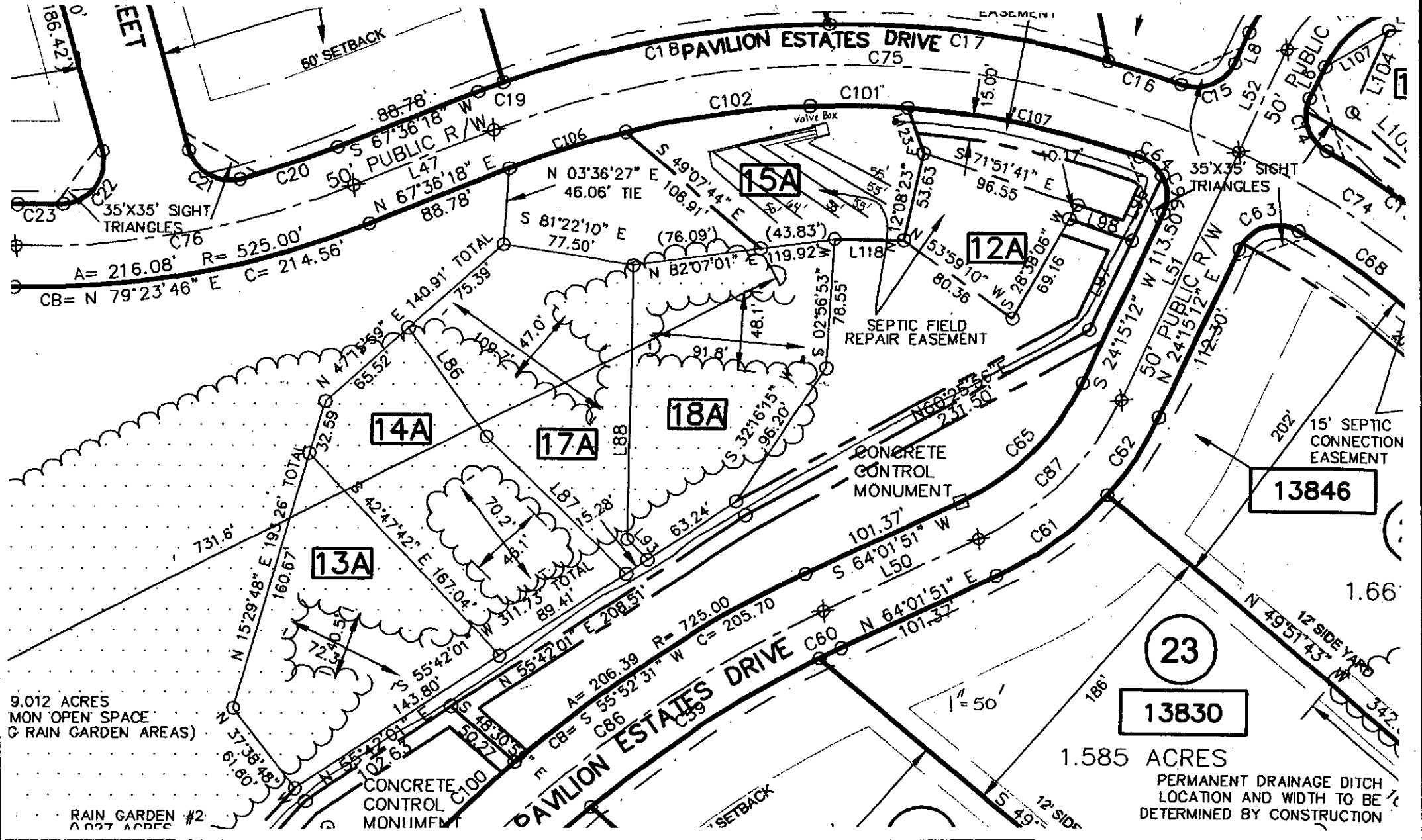





1" = 100'
50' FORRESTED BUFFER
PAVILION GLEN STREET
50' PUBLIC R/W
PAVILION ESTATES DRIVE
50' PUBLIC R/W
PAVILION LOOP DRIVE
50' PUBLIC R/W
OFFSITE Drainfield Lot
WETLANDS
1.454 ACRES
15336
1.512 ACRES
13332
13324
1.451 ACRES
13408
15306
1.430 ACRES
13420
1.424 ACRES
13504
15305
15210
1.447 ACRES
13612
FFE - 681.0
1.394 ACRES
15104
FFE - 681.0
1.502 ACRES
15110
FFE - 681.0
2.097 ACRES
15120
FFE - 689.0
1.800 ACRES
15128
1.724 ACRES
15136
1.887 ACRES
13728
13720
1.626 ACRES
13736
1.617 ACRES
13800
1.598 ACRES
13814
13624
0.441 ACRES COMMON OPEN SPACE (INCLUDING 0.068 ACRES IN RAIN GARDEN #4)
9.012 ACRES COMMON OPEN SPACE (INCLUDING RAIN GARDEN AREAS)
RAIN GARDEN #2 0.027 ACRES
RAIN GARDEN #3 0.085 ACRES OUTLET CONNECTS TO 20' SDE IN LOTS 13 AND 14
0.527 ACRES COMMON OPEN SPACE (INCLUDING 0.118 ACRES IN RAIN GARDEN #5)
RAIN GARDEN LOTS 8,9, PG ST.
DETENTION BASIN LOTS 8,9, PG ST.
RAIN GARDEN LOTS 20-24 0.077 ACRES
DETENTION BASIN LOTS 20-24
PERMANENT DRAINAGE DITCH LOCATION AND WIDTH TO BE DETERMINED BY CONSTRUCTION
SEPTIC FIELD REPAIR EASEMENT
CONCRETE CONTROL MONUMENT
SPRING
35'X35' SIGHT TRIANGLES
8' SIDEWALK EASEMENT (TYP.)
15' SEPTIC CONNECTION EASEMENT
20' SEPTIC CONNECTION EASEMENT
20' SDE
15' SDE
50' SETBACK
50' REAR YARD
30' SIDE YARD
ROBERT B. HELMS, JR.
01942103
10257-074


PAVILION ESTATES DRIVE
50' SETBACK
50' PUBLIC R/W
35'X35' SIGHT TRIANGLES
A= 216.08' R= 525.00' C= 214.56'
CB= N 79°23'46" E
88.78'
S 67°36'18" W
N 67°36'18" E
N 03°36'27" E 46.06' TIE
S 49°07'44" E 106.91'
S 81°22'10" E 77.50'
(76.09')
(43.83')
N 82°07'01" E 119.92'
S 02°56'53" W 78.55'
SEPTIC FIELD REPAIR EASEMENT
S 71°51'41" E 96.55
N 12°08'23" E 53.63'
N 53°59'10" W 80.36'
S 28°38'06" W 69.16'
S 24°15'12" W 113.50'
N 24°15'12" E 112.30'
15A
12A
14A
17A
18A
13A
13846
13830
23
1.585 ACRES
9.012 ACRES
IMON OPEN SPACE
G RAIN GARDEN AREAS)
RAIN GARDEN #2
0.027 ACRES
CONCRETE CONTROL MONUMENT
CONCRETE CONTROL MONUMENT C100
15' SEPTIC CONNECTION EASEMENT
PERMANENT DRAINAGE DITCH LOCATION AND WIDTH TO BE DETERMINED BY CONSTRUCTION
1"=50'
731.6'
160.67'
N 15°29'48" E 193.26' TOTAL
N 42°47'42" E 167.04'
S 55°42'01" W 311.73' TOTAL
N 55°42'01" E 208.51'
A= 206.39 R= 725.00 C= 205.70
CB= S 55°52'31" W
N 64°01'51" E
S 64°01'51" W
N 49°51'43" W
S 49°51'43" E
12' SIDE YARD
101.37'
89.41'
143.80'
102.63'
61.60'
63.24'
96.20'
91.8'
75.39'
65.52'
140.91' TOTAL
N 47°15'59" E
231.50'
202'
186'
342'
1.66

BRADFORD
230
-231
1" = 50'
N 02°10'29" W 509.64'
N 02°10'29" W 434.32' (TOTAL)
(318.40')
S 83°43'04" W
326.25'
(100.78')
218.8'
336.0'
S 15°02'08" W 348.23'
15120
2.097 ACRES
FFE - 689.0
16
15110
1.502 ACRES
FFE - 687.0
15
15104
.394 ACRES
FFE - 681.0
14
13624
1.447 ACRES
FFE - 681.0
13612
13
50' REAR YARD
50' SETBACK
20' SIDE
20' OPEN SPACE EASEMENT
PAVILION LOOP
50' PUBLIC R/W
20' SDE COMMON
TRIANGLES
CB= S 79°14'27" E
A= 147.30' R=
N 79°57'03" E 282.39'
S 79°57'03" W 279.44'
N 10°04'59" W 194.62'
233.93'
236.90'
N 79°57'03" E
N 62°09'42" E 108.19'
S 51°31'17" E 122.22'
0.527 ACRES
(INCLUDING
IN RAIN
3 BLAZES
OFF IN
STREAM
MP 15
ONS
NTENANCE


PAVILION ESTATES DRIVE
50' SETBACK
50' PUBLIC R/W
35'X35' SIGHT TRIANGLES
A= 216.08' R= 525.00' C= 214.56'
CB= N 79°23'46" E
88.78'
S 67°36'18" W
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S 49°07'44" E 106.91'
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(76.09')
(43.83')
N 82°07'01" E 119.92'
S 71°51'41" E 96.55'
N 12°08'23" W 53.63'
N 53°59'10" W 80.36'
S 28°38'06" W 69.16'
SEPTIC FIELD REPAIR EASEMENT
valve Box
15A
12A
14A
17A
18A
13A
N 4°11'59" E 140.91' TOTAL
65.52'
75.39'
108.7'
47.0'
48.1'
91.8'
S 02°56'53" W 78.55'
S 32°16'15" W 96.20'
N60°25'56"E 231.50'
CONCRETE CONTROL MONUMENT
S 24°15'12" W 113.50'
N 24°15'12" E 112.30'
50' PUBLIC R/W
15' SEPTIC CONNECTION EASEMENT
13846
202'
N 15°29'48" E 193.26' TOTAL
160.67'
731.6'
42°47'42" E 167.04'
70.2'
46.1'
15.28'
63.24'
101.37'
S 64°01'51" W
N 64°01'51" E
A= 206.39 R= 725.00
CB= S 55°52'31" W C= 205.70
N 55°42'01" E 208.51'
N 55°42'01" E 102.65'
S 55°42'01" W 311.73' TOTAL
89.41'
S 55°42'01" E 143.80'
48.30'
50.27'
N 37°38'48" W 61.60'
9.012 ACRES
MON OPEN SPACE
G RAIN GARDEN AREAS)
RAIN GARDEN #2
CONCRETE CONTROL MONUMENT
1" = 50'
23
13830
1.585 ACRES
PERMANENT DRAINAGE DITCH LOCATION AND WIDTH TO BE DETERMINED BY CONSTRUCTION
186'
342'
1.66
12' SIDE YARD
N 49°51'43" W
C75
C101
C102
C107
C106
C16
C15
C63
C64
C65
C62
C87
C61
C60
C86
C100
L47
L51
L52
L98
L118
L88
L87
L86
L50
L107
L104

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 6995B WASPS App #: 2410

Primary ES assigned to project: PW

Secondary ES assigned to project:

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☐	No ☐	N/A ☑
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☐	No ☐	N/A ☑
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☐	No ☐	N/A ☑
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 05			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR R.125/I.3	Yes ☑	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, *flow & WWcharacteristics?*	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with *soil/site conditions?*	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	*Is the Design flow (gpd) indicated?*	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Property line lengths shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☑	No ☐	N/A ☐

Operation Permit

.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: _____ Date performed: 10 25 07

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30002410** GWS File #: **6895B** Tax Parcel #: **019-243-10**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 10/12/2012

Type of Installation: Residential - New System Lot Number: 15

Structure Type: HOUSE Size (ft^2): 3600 # Bedrooms: 5 # Occupants: 10

Building Foundation: Crawl Space Water Supply: Private Well

II. Initial System Type: PPBPS (pressurized) **System Classification:** IVa

Initial System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1500	Total Trench Length (ft):	333
Maximum Trench Depth (in):	42	Depth of Media (in):	N/A	Distribution Device:	Manifold (LPP Distri		

III. Repair System Type: Drip Irrigation **System Classification:** Vd

Repair System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.125	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	1	*Trench Spacing (ft):*	2	Absorption Area (ft^2):	4800	Total Trench Length (ft):	4800
Maximum Trench Depth (in):	12	Depth of Media (in):	N/A	Distribution Device:	Headworks (Drip Irr.		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Philo Walker

Signature: Philo Walker RS

Date Issued: 10/12/2007

Owner/Legal Agent: Rick Jasinski
Print Name

Signature: Rick Jasinski

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30002410** GWS File #: **6895B**

IV. Permit Conditions/Comments:

- Easement agreement forms shall be on file and the property shall be deeded and recorded prior to issuance of Construction Authorization.
- This type of septic system requires an inspection once every 3 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This type of septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- The invert of the sewer pipe exiting the structrue should be kept as high as possible in order to achieve gravity flow to the drain field. A dosing tank will be required if gravity flow to the drain field can not be achieved.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Philo Walker

Signature: Philo Walker PJ

Date Issued: 10/12/2007

Owner/Legal Agent: Rick Jasinski

Print Name

Signature: Rick Jasinski

68956

FILE NUMBER: 7199B

APPLICATION NUMBER: 2410

SEPTIC FEE: 200
DATE: 6/20/07
Ck# 1829, 1569

Revised On: January 3, 2007

MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES
APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

WELL FEE: _____
DATE: _____

1. SEPTIC / TYPE APPLICATION: ☐ NONE ☒ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ☒ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

3. JOB LOCATION INFORMATION:

019-243-10

TAX PARCEL NUMBER: ~~0129 019-24-55-20~~
STREET ADDRESS: Pavilion Loop Dr.
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION NAME:
LOT #: 15 LOT SIZE (acres): 1.735
TOWNSHIP:
☒ 0-MECKLENBURG ☐ 3-CORNELIUS ☐ 6-HUNTERSVILLE
☐ 1-CHARLOTTE ☐ 4-PINEVILLE ☐ 7-MINT HILL
☐ 2-DAVIDSON ☐ 5-MATTHEWS

4. BUILDING INFORMATION:
BUILDING TYPE:
☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☒ HOUSE ☐ OTHER _____
HEATED SQUARE FOOTAGE: $ 3600
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS: 10
FOUNDATION TYPE:
☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☒ CRAWL SPACE ☐ BASMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☐ N/A
NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ☐ MUNICIPAL ☐ PUBLIC WELL ☒ PRIVATE WELL ☐ SHARED WELL ☐ SPRING
7. PROPOSED USE OF WELL: ☐ N/A ☐ IRRIGATION ☒ POTABLE ☐ GEOTHERMAL ☐ OTHER

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:

☐ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____
8A. RANK: 1 2 3 4 ___

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES ☒ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES ☒ NO
EXISTING WASTEWATER SYSTEMS	☐ YES ☒ NO	JURISDICTIONAL WETLANDS	☐ YES ☒ NO
WELLS, SPRINGS, OR WATER LINES	☐ YES ☒ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	☐ YES ☒ NO
EASEMENTS OR RIGHT-OF-WAYS	☐ YES ☒ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	☐ YES ☒ NO

10. PROPERTY OWNER:
NAME: The Pavilion of Huntersville
ADDRESS: 1910 S. BLVD STE 200
CITY: Charlotte
STATE: NC ZIP: 28203
HOME PHONE: WORK PHONE: 358-9940
MOBILE PHONE: 201-8976 FAX: 358-9978

11. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: Paul Pearigen
ADDRESS: ~~3[illegible]~~ 5718 Old Battleground Rd
CITY: Greensboro
STATE: NC ZIP: 27410
HOME PHONE: WORK PHONE: 336-288-~~8871~~
MOBILE PHONE: 704-996-6330 FAX: 336-288-8988

12. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? NA
13. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? NA

14. SEPTIC SYSTEM PERMIT APPLICATION SIGNATURE SECTION:
If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either 60 months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

1-20-07
Property Owner's or Owner's Legal Representative Signature Date

15. WELL PERMIT APPLICATION SIGNATURE SECTION:
If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of 12 months from the date of issuance.

Property Owner's or Owner's Legal Representative Signature Date

☐ SURVEY PLAT TO SCALE SUBMITTED ☐ SCALED SITE PLAN SUBMITTED ☐ UN-SCALED SITE PLAN SUBMITTED

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 6895 B WASPS App #: 1772

Primary ES assigned to project: ~~DS~~ PW

Secondary ES assigned to project: _____

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☑	No ☐	N/A ☐
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☑	No ☐	N/A ☐
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 7			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR .25	Yes ☐	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☐	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Property line lengths shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☑	No ☐	N/A ☐

Operation Permit

.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: ICR _____ Date performed: _____

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30001772** GWS File #: **6895B** Tax Parcel #: **019-243-10**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 4/5/2012

Type of Installation: Residential - New System Lot Number: 15

Structure Type: HOUSE Size (ft^2): 0 # Bedrooms: 5 # Occupants: 4

Building Foundation: Basement With Plumbing Water Supply: Private Well

VOID

II. Initial System Type: Approved Accepted **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.25	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A		
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1800	Total Trench Length (ft):	600		
Maximum Trench Depth (in):	20	Depth of Media (in):	12	Distribution Device:	Distribution Box				

III. Repair System Type: Approved Accepted **System Classification:** IIIg

Repair System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.25	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A		
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1800	Total Trench Length (ft):	600		
Maximum Trench Depth (in):	20	Depth of Media (in):	12	Distribution Device:	Distribution Box				

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michelone

Signature: Jeremy Mich, R.S.

Date Issued: 4/5/2007

Owner/Legal Agent: Rick Jasinski
Print Name

Signature: Rick Jasinski

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30001772** GWS File #: **6895B**

IV. Permit Conditions/Comments:

- Prior to issuing the Authorization to Construct for this project, all stormwater detention and treatment devises required by Huntersville shall be reviewed along with the proposed final site plan.

VOID

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michelone

Signature: Jeremy Michelone, R.S.

Date Issued: 4/5/2007

Owner/Legal Agent: Rick Jasinski
Print Name

Signature: Rick Jasinski

S&ME

GWS Septic System Design Review

GWS File #: 6895 B	**Approved**	**Disapproved**
Design Review: TCT 4-2-07	☒	☐
Field Review: JPM 4-5-07	☒	☐

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

March 28, 2007

Mr. Rick Jasinski
Simonini Builders
1910 South Boulevard, Suite 200
Charlotte, North Carolina 28203

Reference: **Request for a Septic Improvement Permit for a Combination of Lots 15 and 16 at The Pavilion**
Mecklenburg County Health Department (MCHD) File #6895B

Dear Mr. Jasinski,

Attached is the request for the Improvement Permit for the above referenced lot. We are requesting an Improvement Permit for a 5 bedroom house. We are proposing a gravity 25% Reduction system and a 25% reduction/drip repair. Mr. Bill Marlin, LSS with the MCHD, has evaluated the soils (see attached MCHD soil sheets) and approved the proposed septic area at a 0.25 gpd/sqft LTAR. S&ME, Inc. has flagged the primary system on the lot. The attached sketch and specifications are not an Improvement Permit and are intended only to assist the MCHD in permitting the referenced lot at The Pavilion.

VOID

A building permit cannot be issued until the MCHD issues an Authorization to Construct (ATC). The buyer will apply for the ATC. If the buyer's house pad does not fit in the "building envelope" shown on the Improvement Permit, the proposed system or number of bedrooms may have to be modified prior to the MCHD issuing the ATC. **No grading shall take place on the lot prior to obtaining the ATC from the MCHD.**

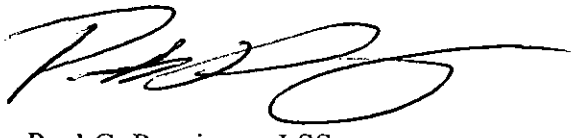
We request that the Improvement Permit be conditioned that any storm water detention or treatment devices required by Huntersville shall be reviewed with the proposed house plans and location prior to issuing the Authorization to Construct.

10-8-07 TCT

The proposed system is a TYPE III and will not require a contract with a Certified Operator to supply maintenance services for the septic system. Please review the attached system sketch and design specifications for the Improvement Permit. If necessary, the MCHD may add comments to the site plan or specifications. Please call in you have and questions or comments.

Sincerely,

S&ME, Inc.



Paul G. Penninger, LSS
Licensed Soil Scientist

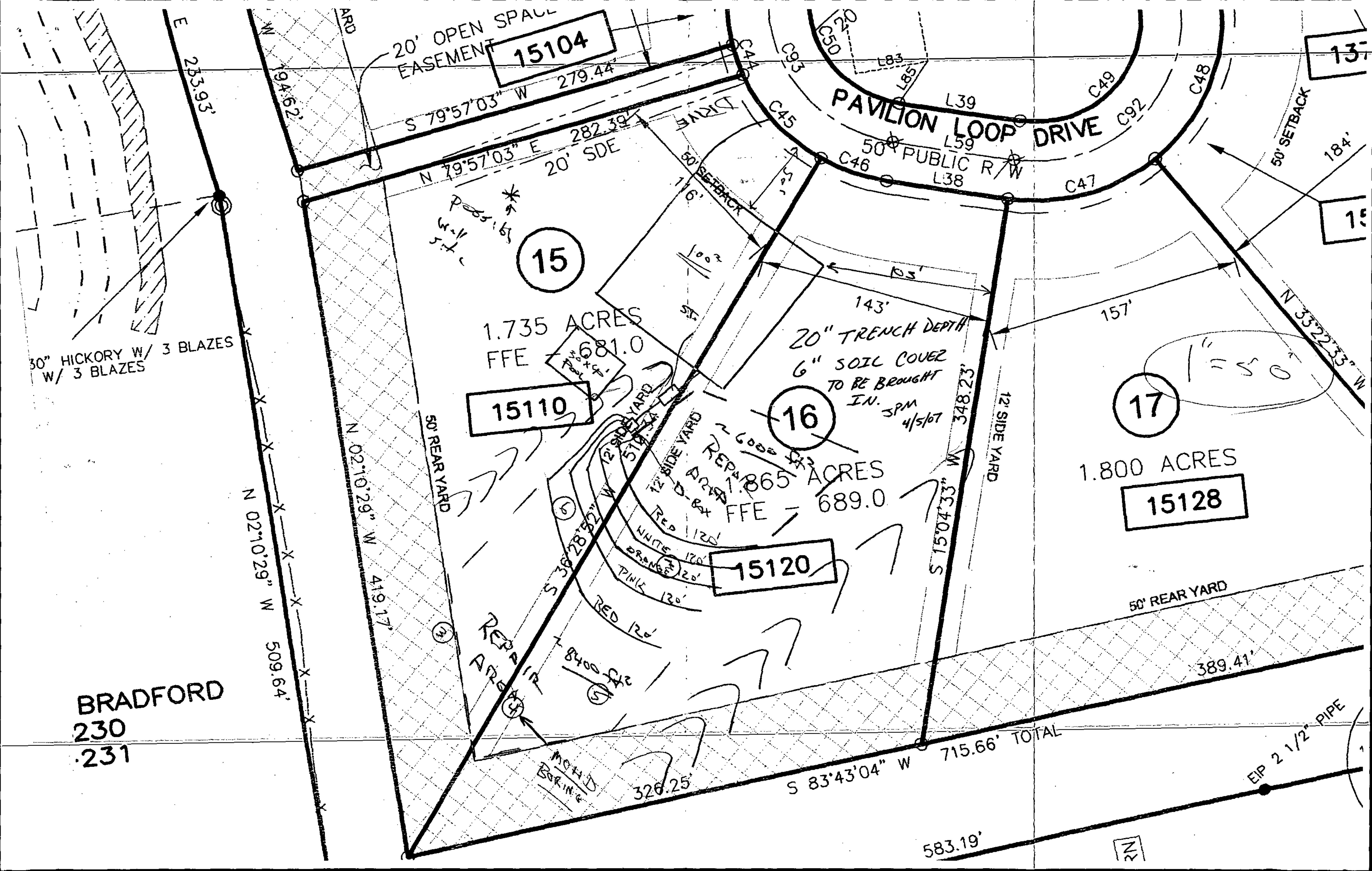
Rob Willcox, LSS
Natural Resources Department Manager

Attachments:
1. System Specifications
2. Site Plan
3. MCHD Soil Evaluation

Copy: Mr. Jeremy Michelone, R.S.
MCHD

Design Specifications for Lot 15-16 at The Pavilion
MCHD File # 6895B

Daily Design Flow:	600 gpd
Number Bedrooms:	5 bedroom
Basement or Crawl Space:	Basement
Septic Tank Size:	1500 gal
Primary System Loading Rate:	**0.25 gpd/ft^2**
Primary System:	**25% reduction**
Number and length of laterals:	5 @ 120 ft.
Total ft. of primary system:	600 ft.
Distribution Device:	D-Box
Repair System Loading Rate:	**0.25 gpd/ft^2**
Repair System:	**25% Reduction/Drip**



20' OPEN SPACE
EASEMENT
15104
279.44'
S 79°57'03" W
194.62'
233.93'
30" HICKORY W/ 3 BLAZES
W/ 3 BLAZES
N 79°57'03" E 282.39'
20' SDE
50' SETBACK
PAVILION LOOP DRIVE
50' PUBLIC R/W
C44
C45
C46
C47
C48
C49
C50
C92
C93
L38
L39
L59
L83
L85
15
1.735 ACRES
FFE - 681.0
15110
50' REAR YARD
N 02°10'29" W 419.17'
N 02°10'29" W 509.64'
BRADFORD
230
231
16
1.865 ACRES
FFE - 689.0
15120
12' SIDE YARD
S 36°28'52" W 510.74'
20" TRENCH DEPTH
6" SOIL COVER
TO BE BROUGHT
IN.
JPM
4/5/07
143'
103'
157'
S 15°04'33" W 348.23'
RED 120'
WHITE 120'
ORANGE 120'
PINK 120'
RED 120'
REPAIR AREA
S 83°43'04" W 715.66' TOTAL
326.25'
389.41'
583.19'
EIP 2 1/2" PIPE
17
1.800 ACRES
15128
N 33°22'33" W
184'
1" = 50'

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: PO 019-242-32
Lot #: 15 &16
File #: 6895B
AppID: 1772

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: The Pavilion of Huntersville
Address: 1910 S. Blvd., Ste 200, Charlotte, N. C. 28203
Proposed Facility: Residence Design Flow (.1949): 600gpd
Location of Site: Pavilion Loop Drive
Water Supply: [ ] Public [x] Individual [x] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Jacob Presley, S & ME
Date Evaluated: 1/24/07
Property Size: 3.6a
Property Recorded:

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 1941 Structure/ Texture	1941 Consistence Mineralogy	b PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr Horiz	Profile Class & LTAR
1	LS, 10	0-4	GR/SCL	FR/SEXP/SS/SP	>27" TO SOIL WETNESS	27	N/A	NONE	US, IV .12GPD/FT^2
		4-22	SBK/C	FI/SEXP/S/P					
		22-27	SBK/SCL	FR/SEXP/SS/SP					
2	"	0-6	GR/SCL	"	>28" TO SOIL WETNESS	28	"	"	US, IV .1GPD/FT^2
		6-28	SBK/C	FI/SEXP/S/P					
3	"	0-6	GR/SCL	FR/SEXP/SS/SP	>33" TO SOIL WETNESS	33	"	"	US, IV .225GPD/FT^2
		6-33	SBK/SC	FI/SEXP/S/P					
4	LS, 8	0-5	GR/SCL	FR/SEXP/SS/SP	>22" TO SOIL WETNESS	32	"	"	US, IV .1GPD/FT^2
		6-24	SBK/SC	FI/SEXP/S/P					
		24-32	SBK/SCL	FR/SEXP/SS/SP					
5	"	0-6	GR/SCL	"	>32" TO SOIL WETNESS	32	"	"	US, IV .25GPD/FT^2
		6-24	SBK/SC	FI/SEXP/S/P					
		24-32	SBK/SCL	FR/SEXP/SS/SP					
6	"	0-7	GR/SCL	"	>35" TO SOIL WETNESS	35	"	"	"
		7-35	SBK/SC	FI/SEXP/S/P					
7	"	0-6	GR/SCL	FR/SEXP/SS/SP	>40" TO SOIL WETNESS	40	"	"	PS, IV .25GPD/FT^2
		6-40	SBK/SC	FI/SEXP/S/P					
					SITE LTAR .25GPD/FT^2				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR		

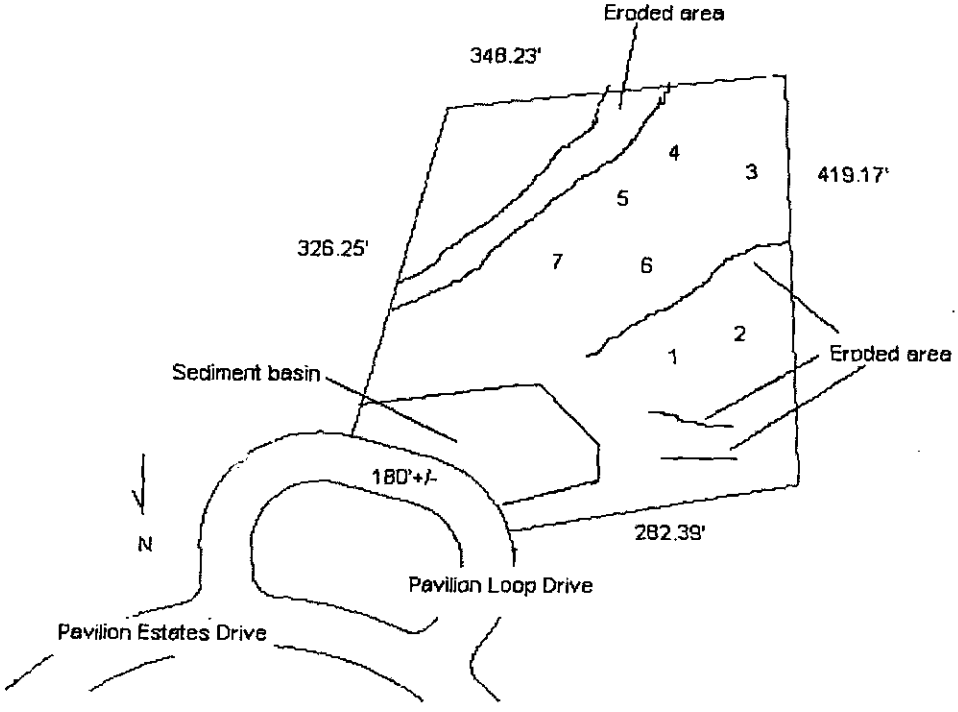
Other Factors (.1946):
Soil Evaluation By: W. R. Martin, LSS, 1/25/2007
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS:
100% repair required

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	SI-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SICL-Silty Clay Loam		PR-Prismatic
T-Terrace				
FP-Flood Plain		CL-Clay Loam		
		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



#1772

GWS – RES. APP 07/05

SEPTIC FEE: 200 CK
DATE: 11/3/07
CRT [ ]

PERMIT APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT / CONSTRUCTION AUTHORIZATION FOR ON-SITE WASTEWATER SYSTEM NEW WELL INSTALLATION OR REPAIR OF EXISTING WELL MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES

FILE # 6895B

WELL FEE: _____
DATE: _____
CRT [ ]

SEPTIC / TYPE APPLICATION: ☐ NONE ☑ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFY PLOT PLAN

WELL / TYPE APPLICATION: ☑ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

JOB LOCATION INFORMATION:

TAX/PARCEL #: 01924232 PO
STREET ADDRESS: Pavilion Loop Dr
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #: 15
TOWNSHIP:

☒ 0-MECKLENBURG ☐ 4-PINEVILLE
☐ 1-CHARLOTTE ☐ 5-MATTHEWS
☐ 2-DAVIDSON ☑ 6-HUNTERSVILLE
☐ 3-CORNELIUS ☐ 7-MINT HILL

BUILDING INFORMATION:

TYPE OF BUILDING:

☐ SINGLE MOBILE HOME (S) ☐ MODULAR HOME (M)
☐ DOUBLE WIDE (D) ☐ MULTIPLE FAMILY (U)
☑ HOUSE (H) ☐ OTHER

HEATED SQUARE FOOTAGE:
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

☐ CONCRETE SLAB ☑ BASEMENT WITH PLUMBING
☐ CRAWLSPACE ☐ BASEMENT WITH NO PLUMBING

IF PLANNING TO EXPAND/ALTER THE EXISTING SYSTEM INDICATE THE FOLLOWING CHANGES:

NUMBER OF BEDROOMS TO BE ADDED: NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:
WILL THERE BE A HOME BUSINESS IN THE RESIDENCE? ☐ YES ☐ NO TYPE:

WATER SUPPLY:

☐ MUNICIPAL (M) ☒ PUBLIC (C) ☒ PRIVATE WELL (P) ☐ SHARED WELL (S) ☐ OTHER 'SPRINGS' (O)

PROPOSED USE OF WELL: ☐ N/A ☐ IRRIGATION ☐ POTABLE ☐ GEOTHERMAL ☐ OTHER

ARE ANY OF THE FOLLOWING LOCATED ON THE PROPERTY? IF SO, PLEASE SHOW LOCATION ON SITE PLAN/PLAT.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES	☑ NO	WELLS, SPRINGS, OR WATER LINES	☐ YES	☑ NO
EXISTING WASTEWATER SYSTEMS	☐ YES	☑ NO	DESIGNATED WETLANDS	☐ YES	☑ NO
EASEMENTS OR RIGHT-OF-WAYS	☐ YES	☑ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES	☑ NO

PROPERTY OWNER:

NAME: The Pavillion of Huntersville
ADDRESS: 1910 S. Blvd. STE 200
CITY: Charlotte
STATE: NC ZIP: 28203
HOME PHONE: WORK PHONE: 704-358-9940
MOBILE PHONE: 704-201-8976 FAX: 704-358-9978

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: Jacob Presley, SBME, Inc.
ADDRESS: 3718 Old Battleground Rd.
CITY: Greensboro
STATE: NC ZIP: 27410
HOME PHONE: WORK PHONE: 336-288-7180
MOBILE PHONE: 336-312-1123 FAX: 336-288-8780

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?

WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?

*An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature 12-22-06 Date

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT & NATURAL RESOURCES DIVISION
OF ENVIRONMENTAL HEALTH ON-SITE
WASTEWATER SECTION

*A Well Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature Date

MECKLENBURG COUNTY HEALTH DEPARTMENT
GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST., SUITE 211
CHARLOTTE, NC 28202 704-336-5103 / FAX: 704-336-6894

N

S 79°57'03" W 279.41'

N 79°57'03" E 282.39'

20' SDE

50' SETBACK

PAVILION LOOP DRIVE

50' PUBLIC R/W

L83

L85

L39

L59

L38

50' SETBACK

15

1.735 ACRES

FFE - 681.0

15-1

15-2

15-3

15-4

15-6

16-4

18-5

N 33°22'33" W

50' REAR YARD

N 02°10'29" W 509.64'

N 02°10'29" W 419.17'

12' SIDE YARD

S 36°28'52" W 510.34'

12' SIDE YARD

16

1.865 ACRES

FFE - 689.0

16-1

16-2

16-3

125'

125'

125'

125'

S 15°04'33" W 348.23'

12' SIDEYARD

17

1.800 ACRES

17-1

17-2

17-3

17-5

50' REAR YARD

326.25'

S 83°43'04" W 715.66' TOTAL

16-5

17-6

Legend

- Provisionally Suitable (soil depths of >42")
- Provisionally Suitable with lowered loading rates and or shallow trench placement (soil depths of >30" to 42")
- Low Pressure Pipe (soil depths of >24" to 30")
- Drip System (soil depths of >18" to 24")
- Unsuitable (soil depths of <18")
- Complex Topography/Gully (Approximately 5-15' Wide)
- Stream
- 2' Contour
- Basin

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 019-243-10
Lot #: 15
File #: 6895B
AppID: 2410

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: The Pavilion of Huntersville
Applicant: P. Penninger, S & ME
Address: 1910 S. Blvd., Ste 200, Charlotte, N. C. 28203
Date Evaluated: 9/25/07
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: 1.7a
Location of Site: Pavilion Loop Drive
Property Recorded:
Water Supply: [ ] Public [ ] Individual [x] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 10	0-4	GR/SCL	FR/SEXP/SS/SP	>27" TO SOIL WETNESS	27	N/A	NONE	US, IV
		4-22	SBK/SC	FI/SEXP/S/P					.25GPD/FT^2
		22-27	SBK/SCL	FR/SEXP/SS/SP					
2	"	0-6	GR/SCL	"	>28" TO SOIL WETNESS	28	"	"	US, IV
		6-28	SBK/C	FI/SEXP/S/P					.2GPD/FT^2
3	"	0-6	GR/SCL	FR/SEXP/SS/SP	>33" TO SOIL WETNESS	33	"	"	US, IV
		6-33	SBK/SC	FI/SEXP/S/P					.225GPD/FT^2
A	LS, 8	0-5	GR/SCL	FR/SEXP/SS/SP	>22" TO SOIL WETNESS	22	"	"	US, IV
		5-22	SBK/C	FI/SEXP/S/P					.125GPD/FT^2
4	"	0-7	GR/SCL	FR/SEXP/SS/SP	>35" TO SOIL WETNESS	35	"	"	US, IV
		7-35	SBK/SC	FI/SEXP/S/P					.25GPD/FT^2
					LTAR .25GPD/FT^2				
			OFF-SITE	AREA					
1-A	LS, 5	0-22	FILL		>64" TO SOIL WETNESS	64	N/A	NONE	PS, IV
		22-31	SBK/C	FI/SEXP/S/P					.3GPD/FT
		31-64	SBK/CL	FR/SEXP/SS/SP					
2-A	"	0-18	FILL		>63" TO SOIL WETNESS	63	"	"	"
		18-36	SBK/C	FI/SEXP/S/P					
		36-63	SBK/CL	FR/SEXP/SS/SP					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IVa	Vd
Site LTAR	0.3	0.125

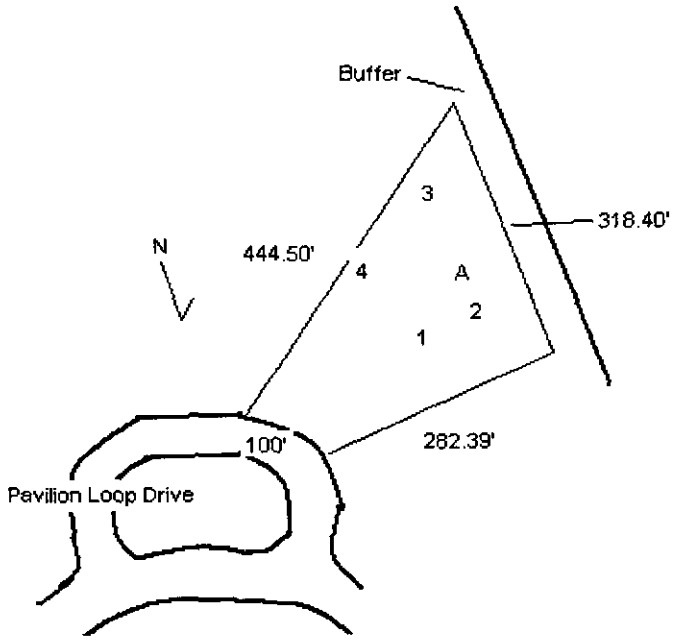
Other Factors (.1946):
Soil Evaluation By: W. R. Marlin, LSS, 9/27/2007,
Others Present:
Site Classification (.1948): Provisionally Suitable
Site Evaluation By: Philo Walker
Others Present:

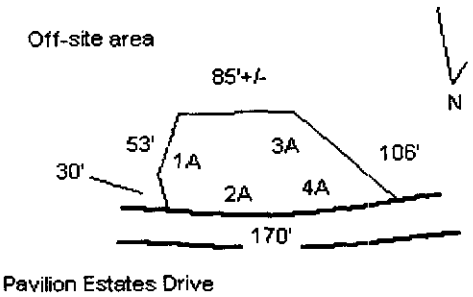
COMMENTS:
100% repair

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	SI-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SICL-Silty Clay Loam		PR-Prismatic
T-Terrace		CL-Clay Loam		
FP-Flood Plain		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
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FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations





Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: PO 019-242-32
Lot #: 15 &16
File #: 6895B
AppID: 1772

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: The Pavilion of Huntersville
Applicant: Jacob Presley, S & ME
Address: 1910 S. Blvd., Ste 200, Charlotte, N. C. 28203
Date Evaluated: 1/24/07
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: 3.6a
Location of Site: Pavilion Loop Drive
Property Recorded:
Water Supply: [ ] Public [x] Individual [x] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
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		4-22	SBK/C	FI/SEXP/S/P					
		22-27	SBK/SCL	FR/SEXP/SS/SP					
2	"	0-6	GR/SCL	"	>28" TO SOIL WETNESS	28	"	"	US, IV .1GPD/FT^2
		6-28	SBK/C	FI/SEXP/S/P					
3	"	0-6	GR/SCL	FR/SEXP/SS/SP	>33" TO SOIL WETNESS	33	"	"	US, IV .225GPD/FT^2
		6-33	SBK/SC	FI/SEXP/S/P					
4	LS, 8	0-5	GR/SCL	FR/SEXP/SS/SP	>22" TO SOIL WETNESS	22	"	"	US, IV .1GPD/FT^2
		6-24	SBK/SC	FI/SEXP/S/P					
		24-32	SBK/SCL	FR/SEXP/SS/SP					
5	"	0-6	GR/SCL	"	>32" TO SOIL WETNESS	32	"	"	US, IV .25GPD/FT^2
		6-24	SBK/SC	FI/SEXP/S/P					
		24-32	SBK/SCL	FR/SEXP/SS/SP					
6	"	0-7	GR/SCL	"	>35" TO SOIL WETNESS	35	"	"	"
		7-35	SBK/SC	FI/SEXP/S/P					
7	"	0-6	GR/SCL	FR/SEXP/SS/SP	>40" TO SOIL WETNESS	40	"	"	PS, IV .25GPD/FT^2
		6-40	SBK/SC	FI/SEXP/S/P					
					SITE LTAR .25GPD/FT^2				

Description	Initial System	Repair System
Available Space (.1945)	P.S.	P.S.
System Type(s)	IIIg	IIIg
Site LTAR	0.25	0.25

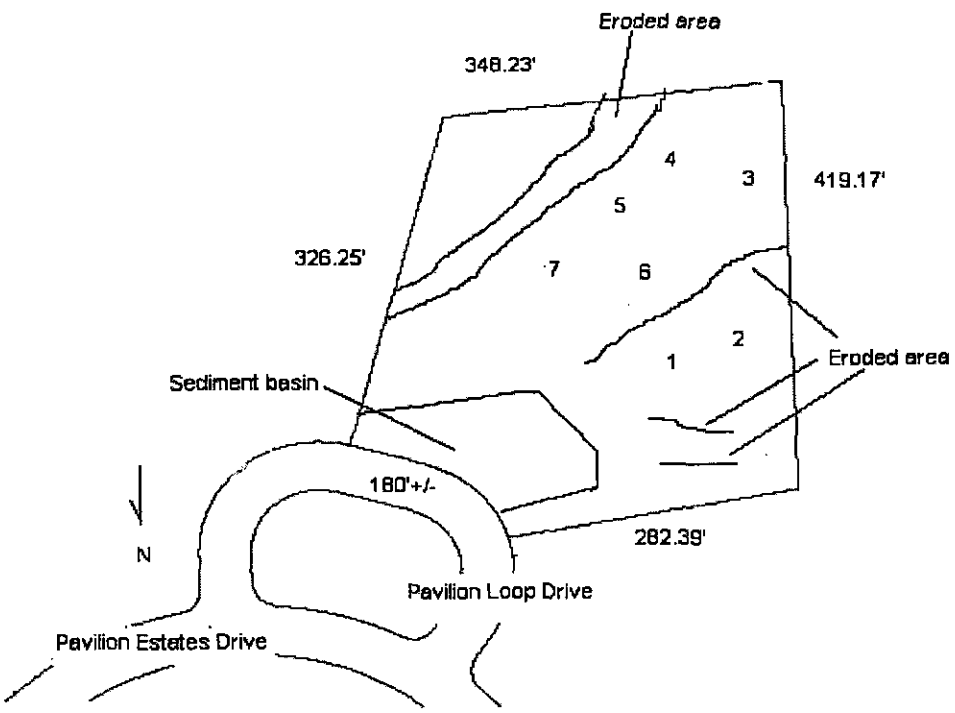
Other Factors (.1946):
Soil Evaluation By: W. R. Martin, LSS, 1/25/2007, W. R. Martin
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS:
100% repair required

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		SCL-Sandy Clay Loam		
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FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



JSL-6894

	S 75°47'25" W	
15.00'	S 74°49'10" E	123.68'
25.00'	N 44°47'50" W	33.03'
25.00'	S 37°05'48" W	32.51'
348.04'	N 71°57'14" E	69.05'
348.04'	N 57°10'31" E	109.91'
348.04'	N 44°20'04" E	45.59'
675.00'	S 44°48'33" W	89.56'
675.00'	S 55°55'28" W	161.84'
675.00'	S 63°25'13" W	14.39'
200.00'	N 52°10'35" E	82.17'
200.00'	N 32°17'17" E	55.91'
25.00'	S 72°28'23" W	37.28'
25.00'	N 49°50'14" W	17.89'
150.00'	N 44°08'32" E	102.06'
251.15'	S 50°10'17" W	89.35'
297.60'	S 75°44'29" W	158.52'
525.00'	N 54°11'42" W	93.77'
90.00'	N 23°11'01" W	78.59'
215.00'	S 23°26'42" E	189.50'
30.00'	N 04°39'39" W	42.38'
165.00'	S 23°30'42" E	145.78'

EXISTING STONE WITNESS BY #5 REBAR

S 34°11'22" E 258.80' TOTAL (TIE) 100.20' 100.00'

EIP#5 REBAR

EIP#5 REBAR

N 56°05'21" E 433.53' (TIE)

REMAINS OF 30" HICKORY WITNESS BY 1 1/2" ROD

58.60'

TERRY C. PHILLIPS
01942112
9515-402
LOT 1
MB 27 PG 754

20' LANDSCAPED BUFFER

CONCRETE CONTROL MONUMENT

SIP

47.96'

S 84°11'21" E 625.75'

275.00'

118.0'

60' REAR YARD

75.6'

88.52'

25.00'

1.31'

195.93'

191.03'

147.2'

50' REAR YARD

84.8'

22.6'

212.9'

12' SIDE YARD

150.8'

351.19'

6

1.512 ACRES

13332

5

1.454 ACRES

15336

4

1.536 ACRES

15328

3

1.738

15320

7

1.451 ACRES

13408

147'

167'

194'

80' SETBACK

13324

15' SEPTIC CONNECTION EASEMENT

PAVILION ESTATES DRIVE

PAVILION HILL CIRCLE

50' PUBLIC R/W

19A

15A

12A

18A

17A

13846

13201

24

1.661 ACRES

23

SEPTIC FIELD REPAIR EASEMENT

CONCRETE CONTROL MONUMENT

35'X35' SIGHT TRIANGLES

20' SIDE YARD

15' SEPTIC CONNECTION EASEMENT

S 24°15'12" W 113.50'

N 24°15'12" E 132.30'

S 64°01'51" W 101.37'

N 64°01'51" E 101.37'

R= 725.00

C= 205.70