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

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 53318 Permit #: 5923 Tax Parcel #: 013-221-35

Property Owner: Rick Luter

Job Location Address: 14925 Henry Harris Stillwell

City: Huntersville State: NC Zip Code: 28078

Operation Permit Issuance Date: 10/11/13 Contractor Name: Richard Abernathy

Permitted Design Flow: 600 GPD

Liquid Capacity of Septic Tank: 1500 gallons

Liquid Capacity of Dosing Tank: — gallons

Effluent Pump Model: —

Drainfield Installation ☐ N/A

Trench Depth: 25 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 600 feet

# of Lines: 5 @ 120 feet

Depth of Media: 12 inches (Type) IQ4W

Depth of Cover: 13 inches

Distribution Device: D-Box

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☐ Municipal ☒ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 75' feet

Distance from Property Line: 710' feet

Distance from Water Supply Source: 710' feet

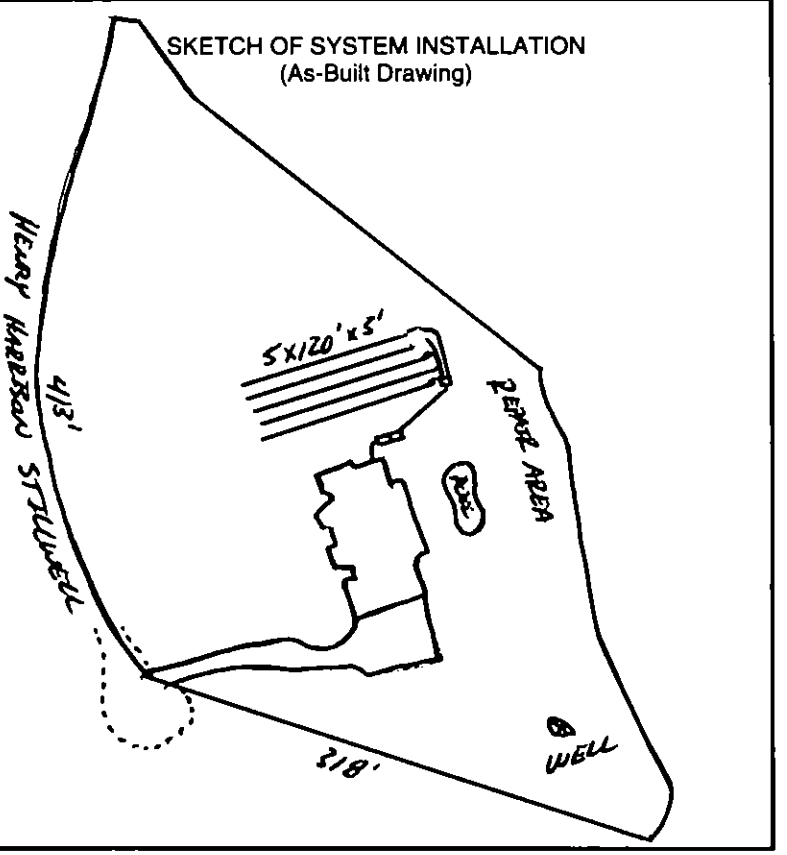
Inspection Dates

Tank(s) Inspected: 10/10/13

Excavation Inspected: 10/10/13, 10/11/13

Pump & Controls Inspected: —

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: Type IIIg, GRAVITY, IQ4W, NA, NA

FIVE BEDROOM HOUSE

DENR Authorized Agent: Jeremy Mecklenburg REHS Signature: Jeremy Mecklenburg REHS

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

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 53318 Permit #: 5923 Tax Parcel #: 013-221-85

Property Owner: Rick Lutzel

Job Location Address: 14925 Henry Harris Stillwell

City: Huntersville State: NC Zip Code: 28078

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIg

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☒ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: Jeremy Michalec REHS Date: 10/11/13

Signature: Jeremy Michalec REHS

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

INSTALLATION APPROVAL *for an*
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 5331B Permit #: 5923 Tax Parcel #: 013-221-35

Property Owner: Rick Lutzel

Job Location Address: 14925 Henry Harrison Stallcup

City: Huntersville State: NC Zip Code: 28078

Installation Approval Issuance Date: 9/24/13

Permission is hereby given to ☒ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge, as specified herein at the described location. This approval is granted based upon the application information submitted to our office. All work shall be completed on or before 10/24/13, after which date this approval shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of granting this approval. An **Operation Permit** must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now of hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.
***NOTICE: This system shall not be installed while soils are in a wet condition.**

Permitted Design Flow: 600 GPD Site LTAR: 0.25 GPD/ft² (For new installations only.)

Liquid Capacity of Septic Tank: 1500 gallons Liquid Capacity of Dosing Tank: — gallons

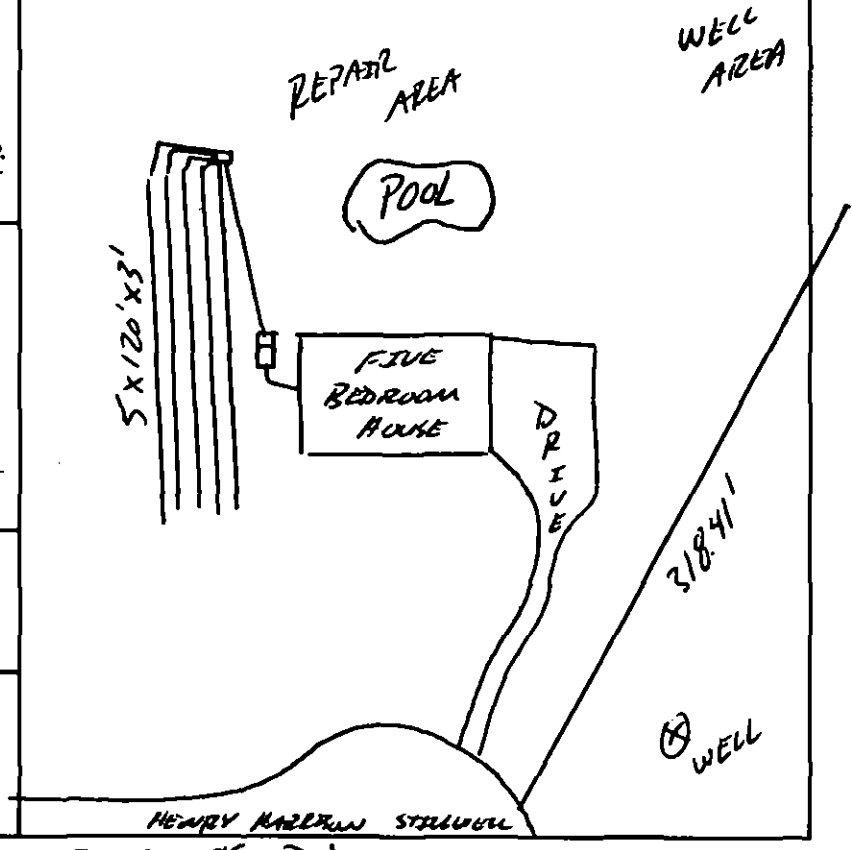
Drainfield Design ☐ N/A
Trench Depth: 25 inches
Trench Width: 3 feet
Line Spacing: 9 feet (O.C.)
Total line length: 600 feet
# of Lines: 5 @ 120 feet
Depth of Media: 12 inches (Type) 25% Red.
Distribution Device: D-Box

Bed Design *(For Repair Installations ONLY.)* ☒ N/A
Bed Depth: _____ inches
Bed Width: _____ feet
Total line length: _____ feet
# of Lines: _____ @ _____ feet
Depth of Media: _____ inches (Type) _____
Distribution Device: _____

Water Supply Source
☐ Municipal ☒ Private Well ☐ Community Well
☐ Other _____

Minimum System Setbacks
Distance from Building Foundation: >5' feet
Distance from Property Line: >10' feet
Distance from Water Supply Source: >100' feet

SKETCH OF SYSTEM LAYOUT
(Proposed Layout)



Comments: System Classification & Type: TYPE IIIg 25% Red. System

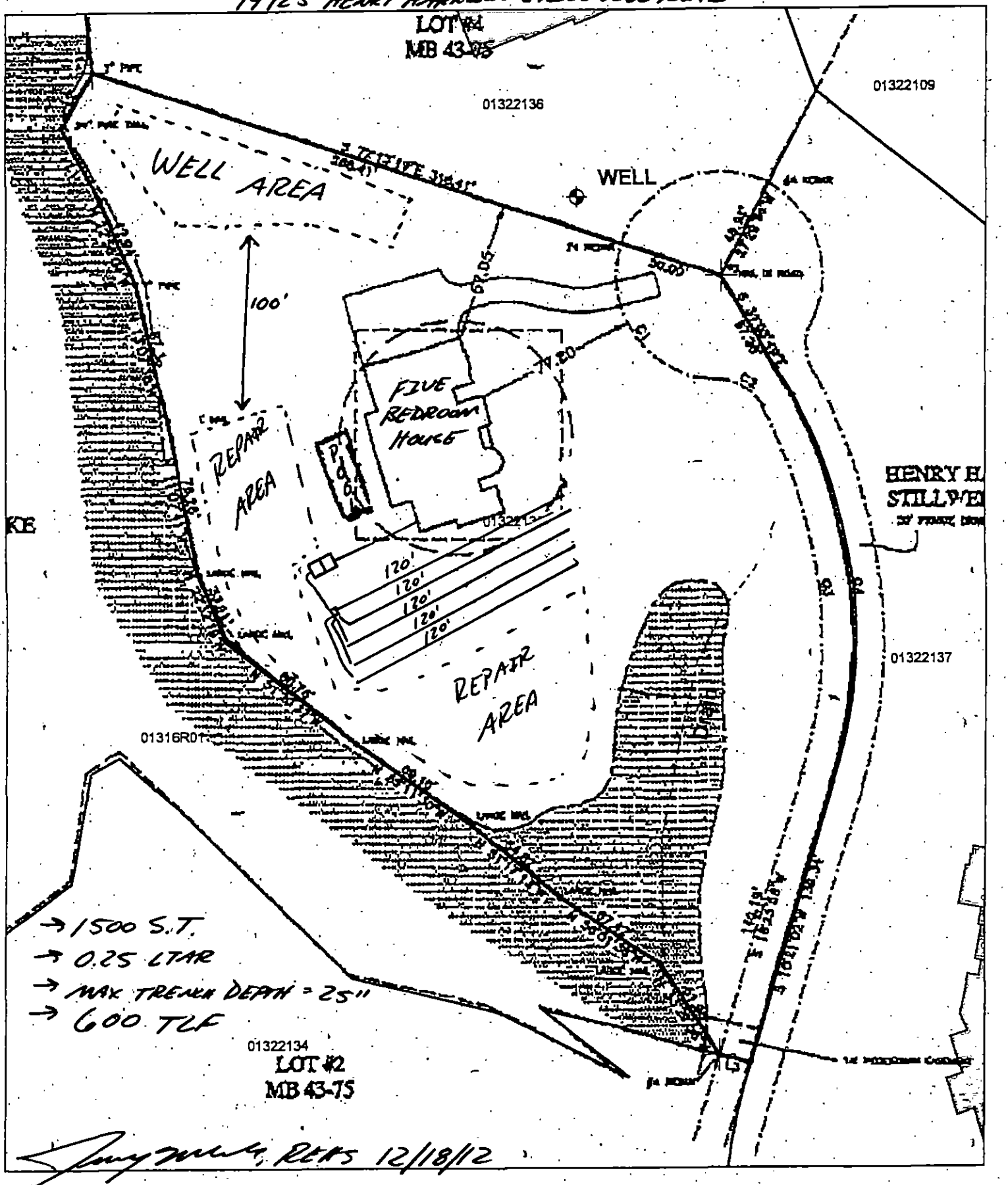
DENR Authorized Agent: Jeremy Nicholas REHS Signature: Jeremy Nicholas REHS

FILE # 53318

PARCEL #: 013-221-35

WAPSPS APPLICATION #: 5923

14925 HENRY HARBOR STILLWELL ROAD



Map Created By: Jacob Presley
Map Created On: 12/10/2012

● Auger Boring Locations

0 15 30 60 Feet

COPY

5331B

MECKLENBURG COUNTY HEALTH DEPARTMENT App#5923

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

1. SEPTIC / TYPE APPLICATION: O N/A ⊘ NEW SYSTEM O ALTERATION O REPAIR O MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: O N/A ⊘ NEW WELL O MAJOR REPAIR O ABANDONMENT

3. JOB LOCATION INFORMATION:
TAX PARCEL NUMBER: 013-22-136
STREET ADDRESS: 14925 Henry Harrison Stillwell
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION NAME: Stillwell
LOT #: 3 LOT SIZE (acres): 2.282
TOWNSHIP:
O MECKLENBURG O CORNELIUS ⊘ HUNTERSVILLE
O DAVIDSON O CHARLOTTE O PINEVILLE
O MATTHEWS O MINT HILL

4. BUILDING INFORMATION:
BUILDING TYPE:
O SINGLE MOBILE HOME O MODULAR HOME
O DOUBLE WIDE O MULTIPLE FAMILY
⊘ HOUSE O OTHER
HEATED SQUARE FOOTAGE: 4665
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS: 5
FOUNDATION TYPE:
O CONCRETE SLAB O BASEMENT WITH PLUMBING
⊘ CRAWL SPACE O BASEMENT WITH NO PLUMBING

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

6. WATER SUPPLY: O MUNICIPAL ⊘ PRIVATE WELL O PUBLIC WELL O SHARED WELL O OTHER _____

7. PROPOSED USE OF WELL: O N/A ⊘ IRRIGATION ⊘ POTABLE (DRINKING WATER) O OTHER _____

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:
☐ N/A ☐ ANY TYPE ☑ CONVENTIONAL ☐ ACCEPTED ☑ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. RANK: Conventional Innovative ____ ____ ____

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

BURIED CABLES, LANDFILLS, STUMPHOLES	O YES ⊘ NO	GRADING/SOIL REMOVAL PERFORMED	O YES ⊘ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	O YES ⊘ NO	JURISDICTIONAL WETLANDS	⊘ YES O NO
WELLS, SPRINGS, OR WATER LINES	O YES ⊘ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	O YES ⊘ NO
EASEMENTS OR RIGHT-OF-WAYS	⊘ YES O NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	O YES ⊘ NO
CHEMICAL/PETROLEUM STORAGE TANKS	O YES ⊘ NO	KNOWN UNDERGROUND CONTAMINATION	O YES ⊘ NO
WASTE STORAGE	O YES ⊘ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	⊘ YES O NO

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 2004 ☐ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 10/25/2012 ☐ N/A

12. PROPERTY OWNER:
NAME: Rick + Maria Lutzel
ADDRESS: 592 Williamson Rd
CITY: Mooresville
STATE: NC ZIP: 28117
WORK PHONE: 704 799 3590
MOBILE PHONE: 704 682 2268
FAX: 704 799 3572
E-MAIL: rlutzel@lutzelgandy.com

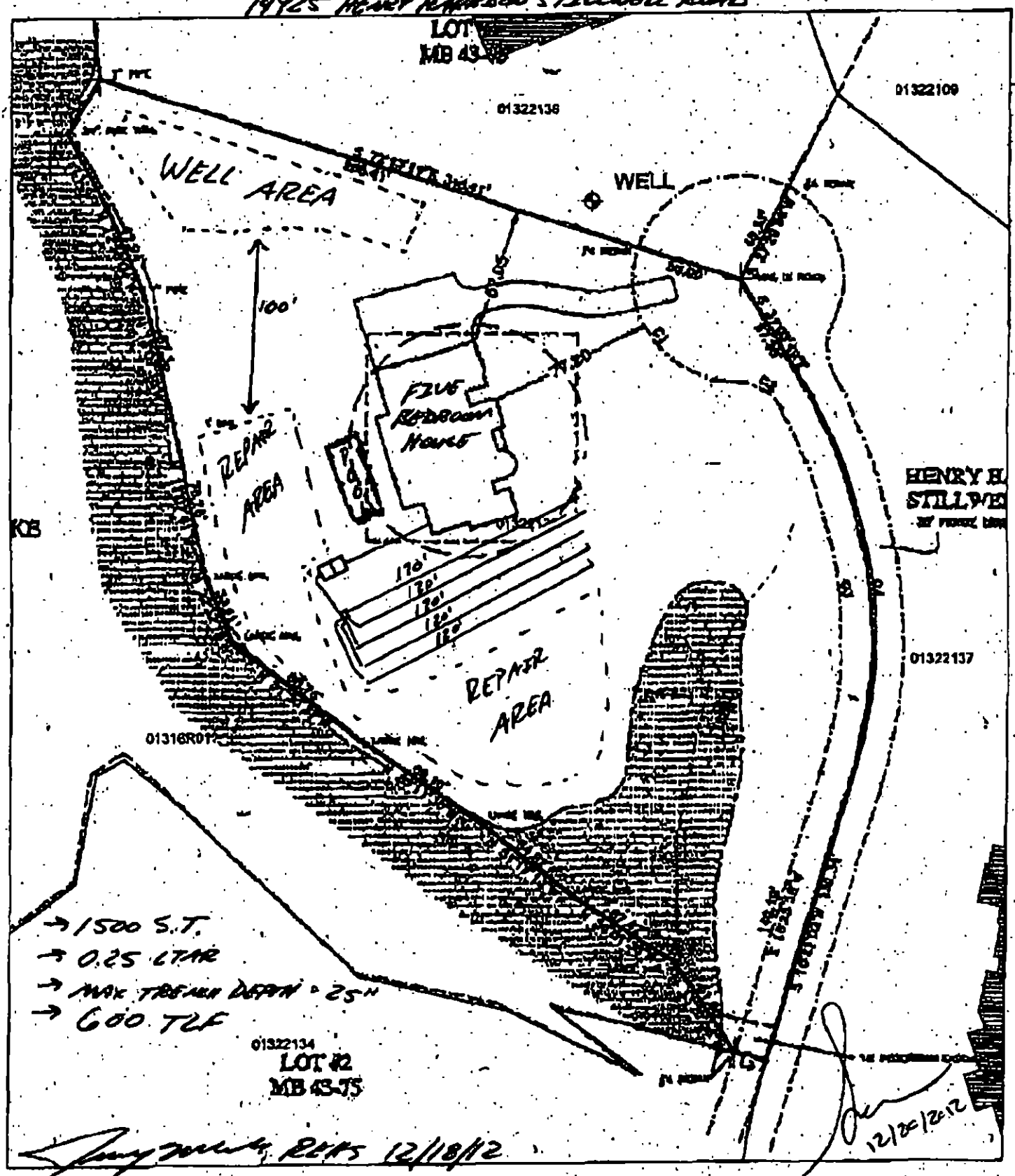
13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: Jasper Builders, Inc
ADDRESS: PO Box 3001
CITY: Mooresville
STATE: NC ZIP: 28117
WORK PHONE: 704 799 9982
MOBILE PHONE: 704 201 4980
FAX: 704 799 9983
E-MAIL: sean@jasperbuilders.com
Sean Gallagher

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-8894

Revised on: 12/15/10

FILE # 53345

PARCEL #: 013-221-36
WAPSPS APPLICATION #: 5923
14925 HENRY HARRISON STILLWELL ROAD



Map Created By: Jacob Presley

Approximate Location

0 15 30 60

FEE: 200.00

DATE: 12/27/2012

CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

MECKLENBURG COUNTY

GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 5331B

PERMIT NUMBER: 30005923

PARCEL NUMBER: 01322135

JOB LOCATION INFORMATION

ADDRESS: 14925 HENRY HARRISON STILLWELL DR

CITY: HUNTERSVILLE **STATE: NC** **ZIP:** 28078

ISSUED TO: Rick & Maria Lutzel

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 12/18/2012

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30005923, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH THE MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.
   *CONSTRUCTION AUTHORIZATION EXPIRATION DATE: 12/18/2017

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-5994

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30005923 GWS File #: 5331B Tax Parcel #: 013-221-35

- 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): 12/18/2017
Type of Installation: Residential - New System Lot Number: 3
Structure Type: HOUSE Size (ft^2): 4665 # Bedrooms: 5 # Occupants: 5
Building Foundation: Crawl Space Water Supply: Private Well

II. Initial System Type: Approved System Classification: IIIg
Initial System Specifications:
Design Flow (gpd): 500 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): 25 Depth of Media (in): 12 Distribution Device: Distribution Box

III. Repair System Type: Approved System Classification: IIIg
Repair System Specifications:
Design Flow (gpd): 500 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): 25 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:
Date Issued: 12/18/2012

Owner/Legal Agent: Sean Gallagher
Print Name
Signature:

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 291 Charlotte, NC 28202
Phone: (704) 336-5100 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 #: 10006923 GWS File #: 6331B

IV. Permit Conditions/Comments:

- 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.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.

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:
Date Issued: 12/18/2012

Owner/Legal Agent: Sean Gallagher
Print Name
Signature:

ironment, Health, and Natural Resources
nmental Health
ter Section

Sheet: 1 of 2
Property ID: 013-221-35
Lot #: 3
File #: 5331B
AppID: 5923

SOIL/SITE EVALUATION for ONSITE WASTEWATER SYSTEM

and Maria Lutzel
2 Williamson Rd., Mooresville, NC 28
acility: 5BR Home
Site: 14925 Henry Harrison Stillw r., Huntersville, NC 28078
pply: [ ] Public [X] Individual
n Method: [X] Auger
Wastewater: [X] Sew

Design Flow (.1949): 600 GPD
[X] Well
[ ] Pit
[ ] Industrial Process

Applicant: Jasper Builders, Inc. - Sean Gallagher
Date Evaluated: 12/7/2012
Property Size: 2.282 ac
Property Recorded: NA
[ ] Spring [ ] Other
[ ] Cut
[ ] Mixed

	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
			L MORPHOLOGY .1941		b PROFILE FACTORS						
Boring #1	FS 40	4	wfsbk L	SS SP FR SEXP	2.5 Y 7/1 @ 31"	40	NA	PS		PS IV 0.25	18"
			wfsbk CL	SS SP FR SEXP							
			wfsbk C	SS P FI SEXP							
		0 - 13	mfgr SL	SS NP FR SEXP							
		13 - 27	wfsbk CL	SS SP FR SEXP	2.5 Y 7/1	51	NA	P			

ment of Environment, Health, and Natural Resources
n of Environmental Health
le Wastewater Section

Sheet: 1 of 2
Property ID: 013-221-35
Lot #: 3
File #: 5331B
AppID: 5923

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

wner: Rick and Maria Lutzel
Address: 542 Williamson Rd., Mooresville, NC 28117
Proposed Facility: 5BR Home
Design Flow (.1949): 600 GPD
Location of Site: 14925 Henry Harrison Stillwell Dr., Huntersville, NC 28078
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: Jasper Builders, Inc. - Sean Gallagher
Date Evaluated: 12/7/2012
Property Size: 2.282 ac
Property Recorded: NA

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	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	FS 2%	0 - 13	wfsbk L	SS SP FR SEXP	2.5 Y 7/1 @ 31"	40	NA	PS		PS IV 0.25	18"
		13 - 24	wfsbk CL	SS SP FR SEXP							
		24 - 40	wfsbk C	SS P FI SEXP							
Boring #2	FS 4%	0 - 13	mfgr SL	SS NP FR SEXP	2.5 Y 7/1, @ 48"	51	NA	S		PS IV 0.25	35"
		13 - 27	wfsbk CL	SS SP FR SEXP							
		27 - 51	wfsbk C	SS P FI SEXP							
Boring #3	FS 3%	0 - 22	wfgr SL	SS NP FR SEXP	2.5 Y 7/1 @ 38"	48	NA	PS		PS IV 0.25	25"
		22 - 35	wfsbk SCL	SS SP FR SEXP							
		35 - 48	wfabk C	SS P FI SEXP							
Boring #4	FS 5%	0 - 18	wfgr SL	SS NP FR SEXP	>51"	51	NA	S		PS IV 0.275	36"
		18 - 44	wfsbk SCL	SS SP FR SEXP							
		44 - 51	wfsbk SC	SS SP FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	III g	III g
Site LTAR	0.25	0.25

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: Jeremy Michelone, REHS
Others Present: Jasper Builders, Bart Abernathy

Jeremy M. REHS

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

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	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #5	FS 5%	0 - 6	wfgr SL	SS NP FR SEXP	>50"	50	NA	S		PS IV 0.275	36"
		6 - 25	wfabk C	S P FI SEXP							
		25 - 50	wfabk CL	SS SP FR SEXP							
Boring #6	FS 4%	0 - 8	wfsbk SCL	SS SP FR SEXP	.50"	50	NA	S		PS IV 0.275	36"
		8 - 42	wfabk C	S P FI SEXP							
		42 - 50	wfabk CL	SS SP FR SEXP							
Boring #7	LS 10%	0 - 10	wfgr SL	SS NP FR SEXP	>52"	52	NA	S		PS IV 0.275	36"
		10 - 20	wfsbk SCL	SS SP FR SEXP							
		20 - 52	wmabk C	SS SP FI SEXP							

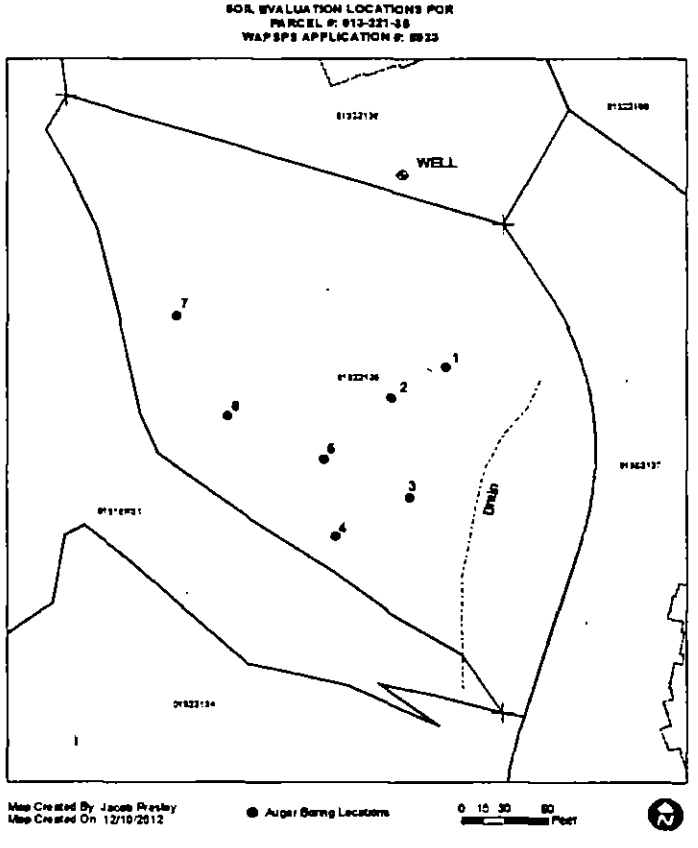
REPAIR AREA

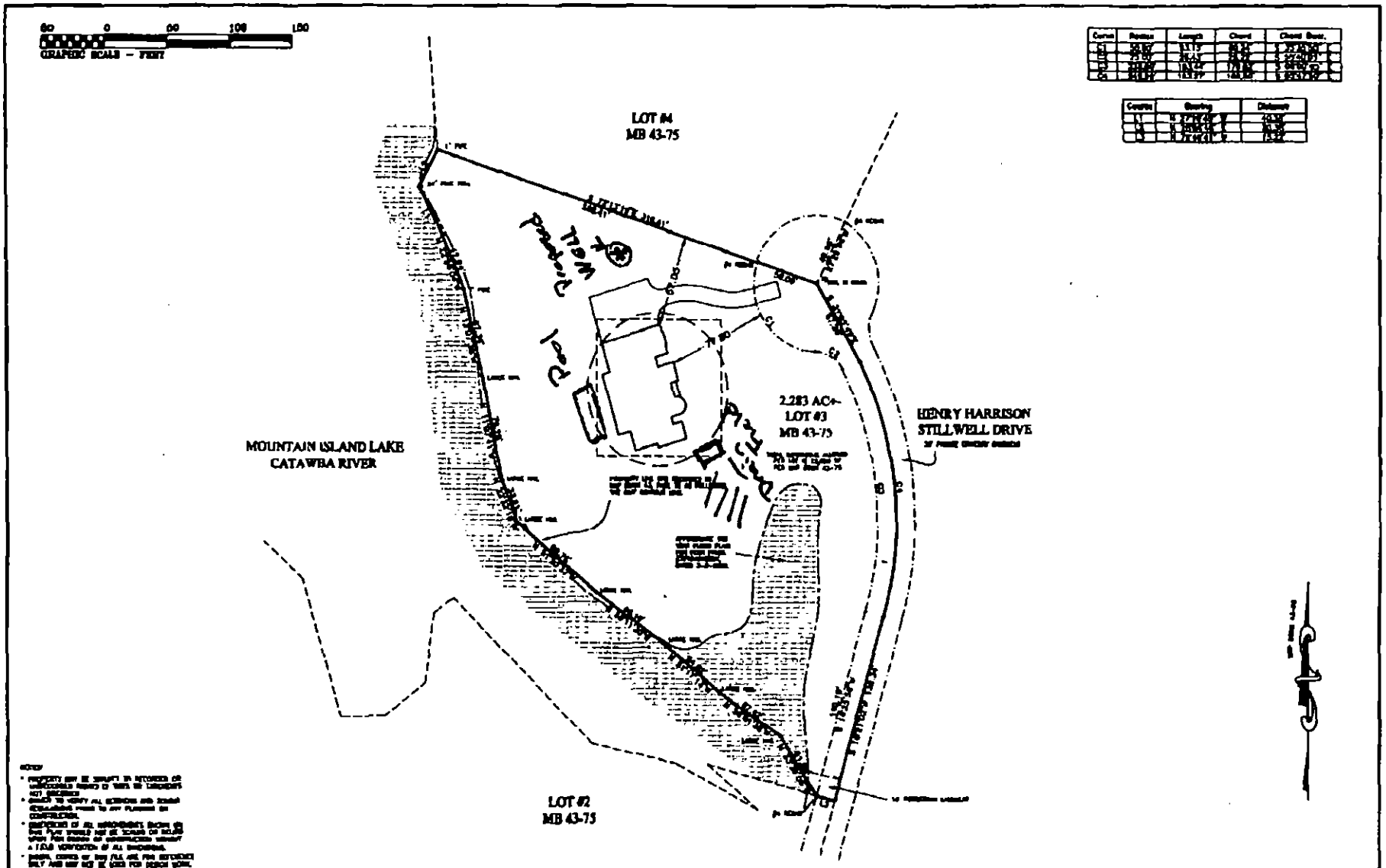
COMMENTS:

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		mass-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		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
				m-moderate
		SiL-Silt Loam		s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

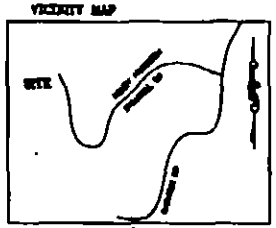
Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations





VICINITY MAP



I CERTIFY THIS PLAT WAS DRAWN FROM AN ACTUAL SURVEY AND IS CORRECT AND TRUE TO THE BEST OF MY KNOWLEDGE.

3899
PROFESSIONAL LAND SURVEYOR — LICENSE NO.

DEDMON SURVEYS

CHUCK POOVEY, PLS #3762
ROBERT DEDMON, PLS #3899
3704 NC HIGHWAY #16 NORTH
P.O. BOX 494 - DENVER, NC 28037
PHONE: 704/483/4908
FAX: 704/483/2170

NOVEMBER 19, 2012	DB: 26328	PG: 473	
SCALE: 1" = 30'	DB:	PG:	
	PLT: 43	PG: 75	
TOWN OF HUNTERSVILLE MECK. COUNTY, NC			
SURV. BY: KJ	DRAWN: RD	JOB# KJSTILL3	

SITE PLAN
FOR

RICHARD J. LUTZEL

BEING LOT #3 OF "STILLWELL AT CASHION ROAD FARMHOUSE CLUSTER #4

Nov 29 2012 11:47AM Jasper BLDRS 704-799-9983 Page 5

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 #: 30005923 GWS File #: 5331B Tax Parcel #: 013-221-35

- 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):** 12/18/2017

Type of Installation: Residential - New System Lot Number: 3

Structure Type: HOUSE Size (ft^2): 4665 # Bedrooms: 5 # Occupants: 5

Building Foundation: Crawl Space Water Supply: Private Well

II. Initial System Type: Approved **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):	25	Depth of Media (in):	12	Distribution Device:	Distribution Box		

III. Repair System Type: Approved **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):	25	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 Owner/Legal Agent: _____
Print Name

Signature: _____ Signature: _____

Date Issued: 12/18/2012

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 #: **30005923** GWS File #: **5331B**

IV. Permit Conditions/Comments:

- 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.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.

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:

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- 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: _____

Date Issued: 12/18/2012

Owner/Legal Agent: _____
Print Name

Signature: _____

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

Sheet: 1 of 2
Property ID: 013-221-35
Lot #: 3
File #: 5331B
AppID: 5923

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Rick and Maria Lutzel
Address: 542 Williamson Rd., Mooresville, NC 28117
Proposed Facility: 5BR Home
Design Flow (.1949): 600 GPD
Location of Site: 14925 Henry Harrison Stillwell Dr., Huntersville, NC 28078
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: Jasper Builders, Inc. - Sean Gallagher
Date Evaluated: 12/7/2012
Property Size: 2.282 ac
Property Recorded: NA

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	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	FS 2%	0 - 13	wfsbk L	SS SP FR SEXP	2.5 Y 7/1 @ 31"	40	NA	PS		PS IV 0.25	18"
		13 - 24	wfsbk CL	SS SP FR SEXP							
		24 - 40	wfsbk C	SS P FI SEXP							
Boring #2	FS 4%	0 - 13	mfgr SL	SS NP FR SEXP	2.5 Y 7/1 @ 48"	51	NA	S		PS IV 0.25	35"
		13 - 27	wfsbk CL	SS SP FR SEXP							
		27 - 51	wfsbk C	SS P FI SEXP							
Boring #3	FS 3%	0 - 22	wfgr SL	SS NP FR SEXP	2.5 Y 7/1 @ 38"	48	NA	PS		PS IV 0.25	25"
		22 - 35	wfsbk SCL	SS SP FR SEXP							
		35 - 48	wfabk C	SS P FI SEXP							
Boring #4	FS 5%	0 - 18	wfgr SL	SS NP FR SEXP	>51"	51	NA	S		PS IV 0.275	36"
		18 - 44	wfsbk SCL	SS SP FR SEXP							
		44 - 51	wfsbk SC	SS SP FI SEXP							

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

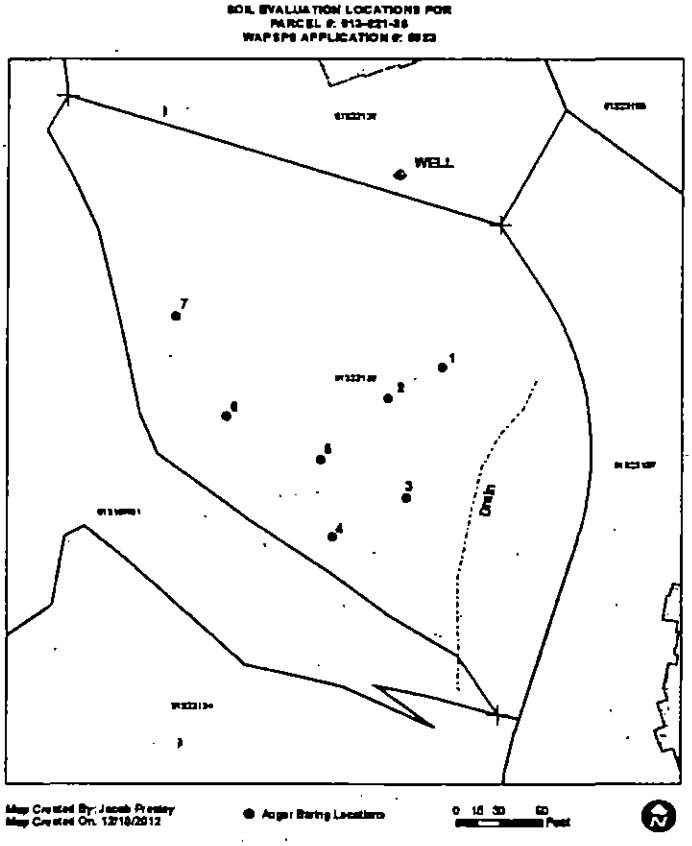
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS:

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		mass-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		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
		SiL-Silt Loam		m-moderate
				s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
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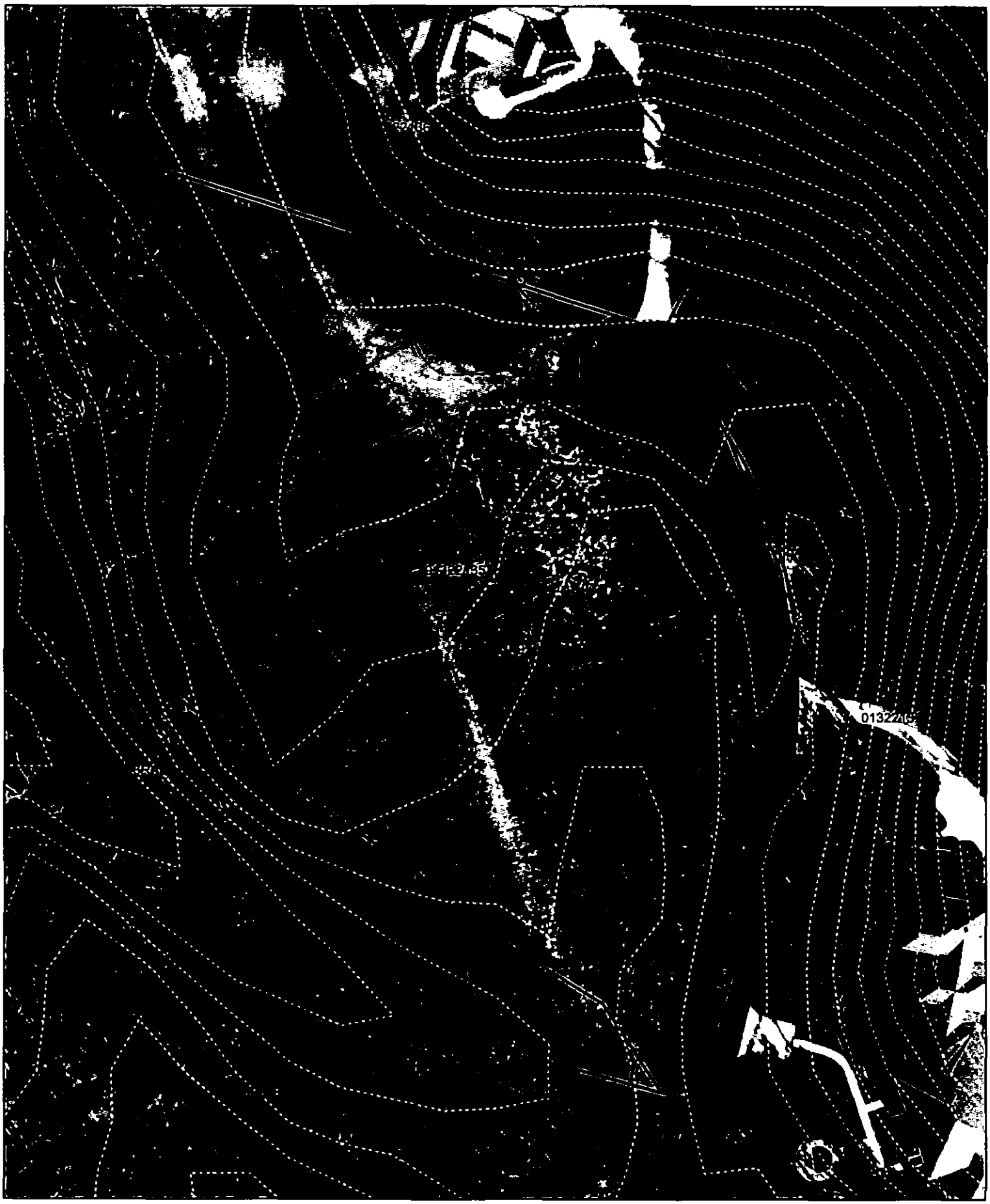
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Sketch of Soil Evaluation Locations



SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

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	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #5	FS 5%	0 - 6	wfgr SL	SS NP FR SEXP	>50"	50	NA	S		PS IV 0.275	36"
		6 - 25	wfabk C	S P FI SEXP							
		25 - 50	wfabk CL	SS SP FR SEXP							
Boring #6	FS 4%	0 - 8	wfsbk SCL	SS SP FR SEXP	.50"	50	NA	S		PS IV 0.275	36"
		8 - 42	wfabk C	S P FI SEXP							
		42 - 50	wfabk CL	SS SP FR SEXP							
Boring #7	LS 10%	0 - 10	wfgr SL	SS NP FR SEXP	>52"	52	NA	S		PS IV 0.275	36"
		10 - 20	wfsbk SCL	SS SP FR SEXP							
		20 - 52	wmabk C	SS SP FI SEXP							



1 inch = 60 feet